

AUTOMOBILE

FACTS ^{AND} FIGURES

TWENTY-THIRD EDITION-1941



AUTOMOBILE MANUFACTURERS ASSOCIATION



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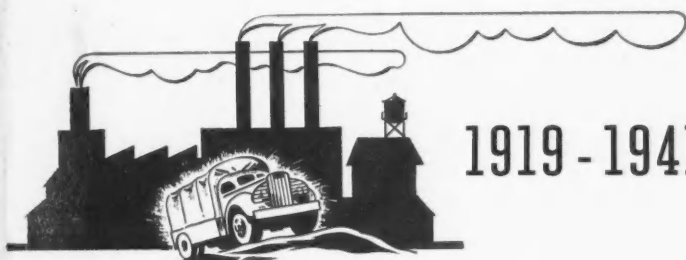
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AUTOMOBILE FACTS AND FIGURES, issued annually since the motor industry emerged from its World War I services to the nation, ranks in this country and abroad as the standard statistical handbook on motor vehicle use and production.

The present edition covers a year in which the motor industry gain assumed the role of producer for the armed forces, tooling up and starting production on assignments which by June, 1941, had reached \$2 billion and still were increasing.

In the years since the first edition was issued, automobiles had become the premier passenger transportation agency of the nation, and highway hauling of goods had attained a vital place in the national economy.

The present edition adds to the regular series of statistics new data measuring employment of passenger cars by their millions of owners for necessity purposes: driving to work, on business, for marketing, etc.; a phase of use which overshadows all social and recreational travel combined.

A special section also outlines the industry's defense work, which now increasingly displaces civilian production.

AUTOMOBILE MANUFACTURERS ASSOCIATION

New Center Building, Detroit

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**AUTOMOTIVE HISTORY
COLLECTION**

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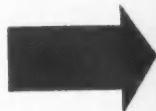
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(A list of members and committees is given on pages 87-91)

†Chrysler Corporation

SECTIONS

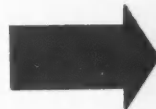
Production



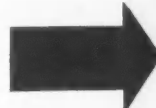
Registration



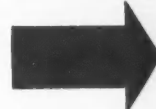
Sales



Taxes



Defense



Use



Employment



Directory



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81 Million Motor Vehicles Produced in 41 Years

Factory Sales and Wholesale Value, U. S. Plants

PRODUCTION

	PASSENGER CARS		MOTOR TRUCKS		TOTAL	
	Number	Value	Number†	Value†	Number	Value
1900...	4,192	\$4,899,443	.....	.....	4,192	\$4,899,443
1901...	7,000	8,183,000	.....	.....	7,000	8,183,000
1902...	9,000	10,395,000	.....	.....	9,000	10,395,000
1903...	11,235	13,000,000	.....	.....	11,235	13,000,000
1904...	22,130	23,357,692	700	1,272,747	22,830	24,630,439
1905...	24,250	38,670,000	750	1,330,000	25,000	40,000,000
1906...	33,200	61,460,000	800	1,440,000	34,000	62,900,000
1907...	43,000	91,620,000	1,000	1,780,000	44,000	93,400,000
1908...	63,500	135,250,000	1,500	2,550,000	65,000	137,800,000
1909...	123,990	189,765,721	3,297	5,333,683	127,287	165,099,404
1910...	181,000	215,340,000	6,000	9,660,000	187,000	225,000,000
1911...	199,319	225,000,000	10,681	21,000,000	210,000	246,000,000
1912...	356,000	335,000,000	22,000	43,000,000	378,000	378,000,000
1913...	461,500	399,902,000	23,500	44,000,000	485,000	443,902,000
1914...	548,139	420,838,378	24,900	44,219,096	573,039	465,057,474
1915...	895,930	575,978,000	74,000	125,800,000	969,930	701,778,000
1916...	1,525,578	921,378,000	92,130	161,000,000	1,617,708	1,082,378,000
1917...	1,745,792	1,053,505,781	128,157	220,982,668	1,873,949	1,274,488,449
1918...	943,436	801,937,925	227,250	434,168,992	1,170,686	1,236,106,917
1919...	1,651,625	1,365,395,415	224,731	371,422,820	1,876,356	1,736,818,235
1920...	1,905,560	1,809,170,963	321,789	423,249,410	2,227,349	2,232,420,373
1921...	1,468,067	1,038,191,037	148,052	166,070,810	1,616,119	1,204,261,847
1922...	2,274,185	1,494,513,991	269,991	226,049,658	2,544,176	1,720,563,649
1923...	3,624,717	2,196,272,116	409,295	308,537,929	4,034,012	2,504,810,045
1924...	3,185,881	1,970,096,559	416,659	318,580,580	3,602,540	2,288,677,139
1925...	3,735,171	2,458,370,026	530,659	458,400,277	4,265,830	2,916,770,303
1926...	3,783,987	2,640,064,519	516,947	452,123,435	4,300,934	3,092,187,954
1927...	2,936,533	2,164,670,891	464,793	420,130,624	3,401,326	2,584,801,515
1928...	3,815,417	2,576,489,623	543,342	437,132,258	4,358,759	3,013,621,881
1929...	4,587,400	2,847,118,562	771,020	566,029,644	5,358,420	3,413,148,206
1930...	2,784,745	1,645,398,523	571,241	389,436,690	3,355,986	2,034,835,213
1931...	1,973,090	1,111,273,774	416,648	262,417,542	2,389,738	1,373,691,316
1932...	1,135,491	618,291,168	235,187	136,193,336	1,370,678	754,484,504
1933...	1,573,512	762,736,512	346,545	186,069,314	1,920,057	948,805,826
1934...	2,177,919	1,147,116,195	575,192	320,143,667	2,753,111	1,467,259,862
1935...	3,252,244	1,709,425,904	694,690	379,407,751	3,946,934	2,088,833,655
1936...	3,669,528	2,015,646,217	784,587	462,820,474	4,454,115	2,478,466,691
1937*	3,915,889	2,304,349,252	893,085	542,921,096	4,808,974	2,847,270,348
1938*	2,000,985	1,269,765,050	488,100	339,226,639	2,489,085	1,608,991,689
1939*	2,866,796	1,816,434,914	710,496	502,421,776	3,577,292	2,318,856,690
1940*	3,692,328	2,422,491,461	777,026	593,731,603	4,469,354	3,016,223,064

*Includes federal excise taxes, also standard equipment in 1937, 1938, 1939, and 1940.

†A substantial part of the trucks reported comprises chassis only, without body; hence the value of bodies for these chassis is not included.

Annual Percentage Change in Factory Sales

Year	PASSENGER CARS	MOTOR TRUCKS	TOTAL	Year	PASSENGER CARS	MOTOR TRUCKS	TOTAL
1935...	49.3%	20.8%	43.4%	1938...	-48.9%	-45.3%	-58.2%
1936...	12.8%	12.9%	12.8%	1939...	43.3%	45.6%	43.7%
1937...	6.7%	13.8%	8.0%	1940...	28.8%	9.4%	24.9%

(-) means decrease; no sign in front of figures means increase.

1940 U. S. Vehicle Replacements 2,600,000

New Vehicles Sold at Retail

1931 . . .	2,231,276
1932 . . .	1,285,130
1933 . . .	1,786,679
1934 . . .	2,358,592
1935 . . .	3,419,028
1936 . . .	4,163,032
1937 . . .	4,152,709
1938 . . .	2,344,731
1939 . . .	3,244,278
1940 . . .	4,095,984
10 Year Average	2,908,144

81% OF NEW VEHICLE SALES
ABSORBED IN REPLACING
OLD VEHICLES SCRAPPED

SCRAPPED
2,338,661
ANNUALLY



SALES
2,908,144
ANNUALLY

Old Vehicles Scrapped

1931 . . .	2,973,279
1932 . . .	2,515,231
1933 . . .	1,654,369
1934 . . .	1,712,288
1935 . . .	2,184,081
1936 . . .	2,418,898
1937 . . .	2,588,604
1938 . . .	2,339,571
1939 . . .	2,400,289
1940 . . .	2,600,000
10 Year Average	2,338,661

← PRODUCTION

Automobile Markets

(Figures include all motor vehicles)

FOREIGN MARKET

DOMESTIC MARKET

Year	Factory Sales U. S. and Canada	Canadian Output	U. S. Exports	Total Foreign	New Owners and Others*	Replacements†	Total Domestic
1921	1,682,365	66,246	63,619	129,865	1,069,671	482,829	1,552,500
1922	2,645,183	101,007	127,398	228,405	1,621,822	794,956	2,416,778
1923	4,181,214	147,202	235,277	382,479	2,921,592	877,143	3,798,735
1924	3,735,120	132,580	293,274	425,854	2,157,885	1,151,381	3,309,266
1925	4,427,800	161,970	428,694	590,664	2,166,799	1,670,337	3,837,136
1926	4,505,661	204,727	393,063	597,790	2,083,641	1,824,230	3,907,871
1927	3,580,380	179,054	466,380	645,434	824,732	2,110,214	2,934,946
1928	4,600,813	242,054	582,713	824,767	1,259,178	2,516,868	3,776,046
1929	5,621,045	262,625	733,762	996,387	1,792,757	2,831,901	4,624,658
1930	3,509,358	153,372	405,715	559,087	0	2,950,271	2,950,271
1931	2,472,297	82,559	241,923	324,482	0	2,147,815	2,147,815
1932	1,431,467	60,789	120,465	181,254	0	1,250,213	1,250,213
1933	1,985,909	65,852	176,583	242,435	89,105	1,654,369	1,743,474
1934	2,869,963	116,852	310,522	427,374	730,301	1,712,288	2,442,589
1935	4,119,811	172,877	334,841	507,718	1,428,012	2,184,081	3,612,093
1936	4,616,274	162,159	346,067	508,226	1,689,150	2,418,898	4,108,048
1937	5,016,437	207,463	475,914	683,377	1,744,456	2,588,604	4,333,060
1938	2,655,171	166,086	325,940	492,026	0	2,163,145	2,163,145
1939	3,732,718	155,426	316,138	471,564	860,865	2,400,289	3,261,154
1940	4,692,338	222,984	229,423	452,407	1,639,931	2,600,000	4,239,931

*Number of new motor vehicles sold in excess of number of old vehicles estimated as having been (a) scrapped or (b) kept without being re-registered.

†Represents old vehicles estimated as having been scrapped or unregistered. The estimate of replacements was made by (1) adding retail sales of new vehicles during a year to the total registrations at the end of the preceding year; (2) subtracting total registrations at the end of the current year; (3) adding half this difference, obtained in (2), and half the corresponding difference resulting from a similar computation for the preceding year, which gives the estimated total scrapped or unregistered in the preceding year; (4) all scrapped or unregistered old vehicles during the year are assumed to be equivalent to the replacement market for new vehicles. In years 1930 to 1932, and 1939, computed cars scrapped or unregistered exceeded number of new cars sold in the domestic market, hence replacements are assumed to have absorbed all sales in the domestic market.

Motor Vehicle Factory Sales—By Months

United States

(Figures from U. S. Census Bureau)*

PRODUCTION

Passenger Car Factory Sales

Year	1934	1935	1936	1937	1938	1939	1940
Jan.....	112,754	227,554	297,692	309,494	155,505	281,465	362,897
Feb.....	186,774	273,576	224,211	296,788	139,380	243,000	337,756
Mar.....	279,274	359,410	342,870	403,879	174,065	299,703	352,922
Apr.....	288,355	387,158	416,431	439,980	176,078	273,409	362,139
May.....	273,764	305,547	384,921	425,432	154,958	237,870	325,676
June.....	261,280	294,182	375,337	411,414	136,531	246,704	286,040
July.....	223,094	274,344	371,922	360,400	106,841	150,738	168,769
Aug.....	183,500	181,130	209,351	311,456	58,624	61,407	46,823
Sept.....	125,040	56,097	90,101	118,671	65,159	161,625	224,470
Oct.....	84,003	213,310	190,242	298,662	187,494	251,819	421,214
Nov.....	49,020	336,914	341,085	295,328	320,344	285,252	407,091
Dec.....	111,061	343,022	425,365	244,385	326,006	373,804	396,531
Total.....	2,177,919	3,252,244	3,669,528	3,915,889	2,000,985	2,866,796	3,692,328

Motor Truck Factory Sales

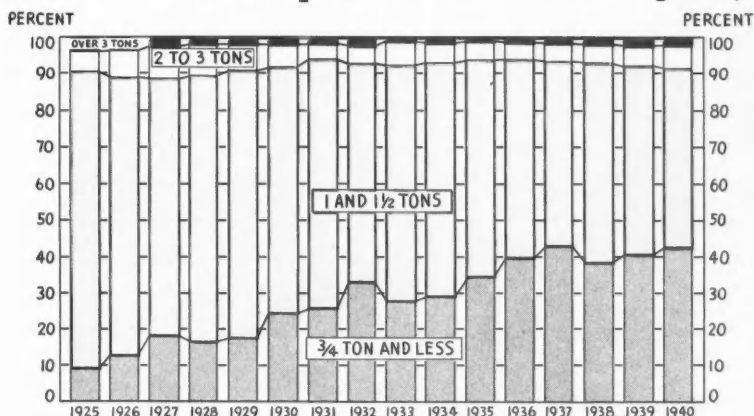
Year	1934	1935	1936	1937	1938	1939	1940
Jan.....	42,912	62,174	66,250	70,109	53,823	60,703	69,382
Feb.....	43,482	58,655	63,331	67,405	47,151	60,220	66,276
Mar.....	59,160	66,503	78,052	90,242	47,580	72,243	70,698
Apr.....	64,620	65,778	86,243	96,170	43,032	63,966	70,607
May.....	56,691	55,560	75,591	91,487	37,101	59,672	65,539
June.....	45,197	62,158	77,631	85,898	38,139	63,034	58,596
July.....	41,839	57,765	68,809	78,568	34,602	58,621	62,934
Aug.....	51,311	56,270	61,923	82,874	31,870	38,461	29,050
Sept.....	44,967	31,443	45,064	52,542	18,375	27,132	44,638
Oct.....	47,988	58,733	34,446	31,214	22,018	61,573	72,009
Nov.....	34,462	58,145	53,902	64,727	52,069	66,533	80,261
Dec.....	42,563	61,506	73,345	81,849	62,340	78,338	87,036
Total.....	575,192	694,690	784,587	893,085	488,100	710,496	777,026

Passenger Car and Truck Factory Sales

Year	1934	1935	1936	1937	1938	1939	1940
Jan.....	155,666	289,728	363,942	379,603	209,328	342,168	432,279
Feb.....	230,256	332,231	287,542	364,193	186,531	303,220	404,032
Mar.....	338,434	425,913	420,922	494,121	221,645	371,946	423,620
Apr.....	352,975	452,936	502,674	536,150	219,110	337,375	432,746
May.....	330,455	361,107	460,512	516,919	192,059	297,542	391,215
June.....	306,477	356,340	452,968	497,312	174,670	309,738	344,636
July.....	264,933	332,109	440,731	438,968	141,443	209,359	231,703
Aug.....	234,811	237,400	271,274	394,330	90,494	99,868	75,873
Sept.....	170,007	87,540	135,165	171,213	83,534	188,757	269,108
Oct.....	131,991	272,043	224,688	329,876	209,512	313,392	493,223
Nov.....	83,482	395,059	394,987	360,055	372,413	351,785	487,352
Dec.....	153,624	404,528	498,710	326,234	388,346	452,142	483,567
Total.....	2,753,111	3,946,934	4,454,115	4,808,974	2,489,085	3,577,292	4,469,354

*Includes overseas assemblies of motor vehicles of American make.

86% of Truck Output is Below 2-Ton Capacity



(Chart does not include special types)

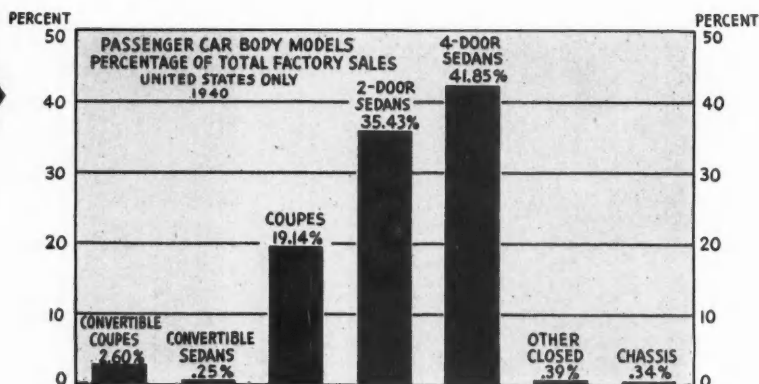
Factory Sales of Motor Trucks by Capacities

TON RATING

U. S. and Canada	3/4 or less	1 and less than 1 1/2	1 1/2 and less than 2	2 and less than 2 1/2	2 1/2 and less than 3 1/2	3 1/2 and less than 5	5 and over	Special Types	Total
1932.....	79,127	1,618	144,113	7,620	6,006	2,689	2,202	1,910	245,286
Per Cent	32.3	.6	58.8	3.1	2.4	1.1	.9	.8	100%
1933.....	99,028	893	228,238	15,866	7,728	2,859	1,331	2,605	358,548
Per Cent	27.6	.2	63.7	4.4	2.2	.8	.4	.7	100%
1934.....	172,089	2,341	376,475	25,995	11,136	4,752	2,869	3,740	599,397
Per Cent	28.6	.4	62.9	4.3	1.9	.8	.5	.6	100%
1935.....	249,957	2,259	420,597	28,950	10,465	3,612	3,824	*12,341	732,005
Per Cent	34.1	.3	57.5	4.0	1.4	.5	.5	*1.7	100%
1936.....	316,208	9,686	423,503	30,637	12,309	4,621	5,567	*15,846	818,377
Per Cent	38.6	1.1	52.0	3.7	1.5	.5	.7	*1.9	100%
1937.....	395,157	21,580	441,156	30,431	18,971	6,170	9,248	*24,789	947,502
Per Cent	41.7	2.3	46.6	3.2	2.0	.6	1.0	*2.6	100%
1938.....	194,827	30,951	246,200	18,375	9,954	4,539	5,820	*19,759	530,425
Per Cent	36.7	5.8	46.4	3.5	1.9	.9	1.1	*3.7	100%
1939.....	292,768	29,725	344,199	26,701	18,801	7,619	7,365	*30,375	757,553
Per Cent	38.6	3.9	45.5	3.5	2.5	1.0	1.0	*4.0	100%
U. S. Only									
1935.....	237,411	2,158	401,202	24,673	9,860	3,510	3,776	*12,100	694,690
Per Cent	34.2	.3	57.8	3.6	1.4	.5	.5	*1.7	100%
1936.....	301,861	9,404	409,438	26,442	11,788	4,573	5,537	*15,544	784,587
Per Cent	38.4	1.2	52.2	3.4	1.5	.6	.7	*2.0	100%
1937.....	373,844	20,101	423,801	17,683	18,147	6,057	9,222	*24,228	893,085
Per Cent	41.9	2.3	47.4	2.0	2.0	.7	1.0	*2.7	100%
1938.....	177,320	28,101	234,486	9,065	9,144	4,643	6,013	*19,328	488,100
Per Cent	36.3	5.7	48.0	1.9	1.9	1.0	1.2	*4.0	100%
1939.....	273,904	26,519	333,235	15,604	16,789	7,542	7,323	*29,590	710,496
Per Cent	38.5	3.7	46.9	2.2	2.4	1.1	1.0	*4.2	100%
1940.....	311,554	30,192	328,090	29,695	19,141	8,614	8,506	*41,234	777,026
Per Cent	40.1	3.9	42.2	3.8	2.5	1.1	1.1	*5.3	100%

*Including station wagons, includes buses, fire apparatus, street sweepers and other special purpose vehicles which have been built by motor vehicle manufacturers specifically for the purpose, but excludes those vehicles converted into these types after having been shipped from the factory.

Four-Door Sedans Are Most Popular



Passenger Car Factory Sales by Body Types
United States and Canada

	1936		1937		1938	
	Number	%	Number	%	Number	%
Roadster.....	7,778	.24	1,134	.03	591	.03
Touring.....	4,949	.13	3,743	.09	1,260	.06
Convertible Coupe.....	38,139	1.00	45,052	1.11	30,017	1.42
Convertible Sedan.....	12,887	.33	14,341	.35	7,765	.37
Coupe.....	488,810	12.87	578,327	14.21	314,675	14.81
2-Door Sedan.....	1,509,654	39.75	1,562,014	38.39	759,135	35.72
4-Door Sedan.....	1,662,125	43.76	1,787,457	43.93	964,462	45.39
All other closed cars....	13,981	.36	11,500	.28	4,480	.21
Chassis.....	59,574	1.56	65,367	1.61	42,361	1.99
Total.....	3,797,897	100%	4,068,935	100%	2,124,746	100%

	1939		1939		1940	
	Number	%	Number	%	Number	%
Roadster.....	296	.01	296	.01	38	—
Touring.....	459	.02	459	.02	—	—
Convertible Coupe.....	51,709	1.74	51,086	1.78	95,976	2.60
Convertible Sedan.....	7,418	.25	7,167	.25	9,351	.25
Coupe.....	472,911	15.90	462,818	16.14	706,818	19.14
2-Door Sedan.....	1,092,310	36.71	1,066,399	37.20	1,308,110	35.43
4-Door Sedan.....	1,302,944	43.79	1,249,329	43.58	1,545,100	41.85
All other closed cars....	4,501	.15	4,100	.14	14,536	.39
Chassis.....	42,617	1.43	25,142	.88	12,399	.34
Total.....	2,975,165	100%	2,866,796	100%	3,692,328	100%

Canadian 1940 Output 223,013 Motor Vehicles

(Figures from Annual Report of Dominion Bureau of Statistics, Ottawa, Canada)

Number and Wholesale Value of Canadian Production

Year	PASSENGER CARS		TRUCKS		TOTAL	
	Number	Value	Number	Value	Number	Value
1921.....	61,098	\$53,561,415	5,148	\$3,843,288	66,246	\$57,404,703
1922.....	92,838	67,226,654	8,169	5,232,405	101,007	72,459,059
1923.....	127,976	78,282,372	19,226	8,941,011	147,202	87,223,383
1924.....	114,537	70,609,960	18,043	8,125,916	132,580	78,735,876
1925.....	135,573	86,158,773	26,397	12,234,486	161,970	98,393,259
1926.....	166,887	106,000,203	37,840	16,629,334	204,727	122,629,537
1927.....	146,421	100,962,211	32,633	14,942,017	179,054	115,904,228
1928.....	197,848	127,263,877	44,206	21,913,122	242,054	149,176,999
1929.....	203,307	134,023,280	59,318	29,474,395	262,625	163,497,675
1930.....	121,337	75,253,581	32,035	16,513,225	153,372	91,766,806
1931.....	65,072	42,634,173	17,487	10,330,763	82,559	52,964,936
1932.....	50,694	32,490,129	10,095	6,070,667	60,789	38,560,796
1933.....	53,849	32,568,268	12,003	6,062,195	65,852	38,630,463
1934.....	92,647	57,260,156	24,205	12,770,318	116,852	70,030,474
1935.....	135,562	79,209,276	37,315	19,803,771	172,877	99,013,047
1936.....	128,369	76,814,258	33,790	19,140,946	162,159	95,955,204
1937.....	153,046	93,368,282	54,417	30,389,011	207,463	123,757,293
1938.....	123,761	81,661,687	42,325	26,497,038	166,086	108,158,725
1939.....	108,369	71,101,204	47,057	28,072,712	155,426	99,173,916
1940.....	109,911	83,544,445	113,102	91,191,516	223,013	174,735,961

PRODUCTION

Canadian Motor Vehicle Manufacturing Industry

Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Exports Cars and Trucks	Imports Cars and Trucks
1929.....	17	\$98,378,301	16,435	\$26,864,808	101,711	44,724
1930.....	16	90,671,678	12,541	19,473,782	44,553	23,233
1931.....	26	59,638,057	9,545	13,113,192	13,813	8,738
1932.....	25	49,641,777	8,810	11,435,741	12,534	1,449
1933.....	22	40,000,559	8,134	8,557,331	20,403	1,781
1934.....	21	34,520,938	9,674	12,938,933	43,368	2,905
1935.....	20	40,765,548	13,095	18,797,599	64,330	4,111
1936.....	16	46,497,259	12,933	18,164,042	55,570	9,903
1937.....	15	57,996,242	14,946	22,138,991	65,867	20,069
1938.....	12	59,798,250	14,872	20,993,362	57,909	15,154
1939.....	12	59,470,986	14,427	20,573,714	58,720	18,284
1940.....	10	78,816,499	16,798	31,110,945	84,347	17,019

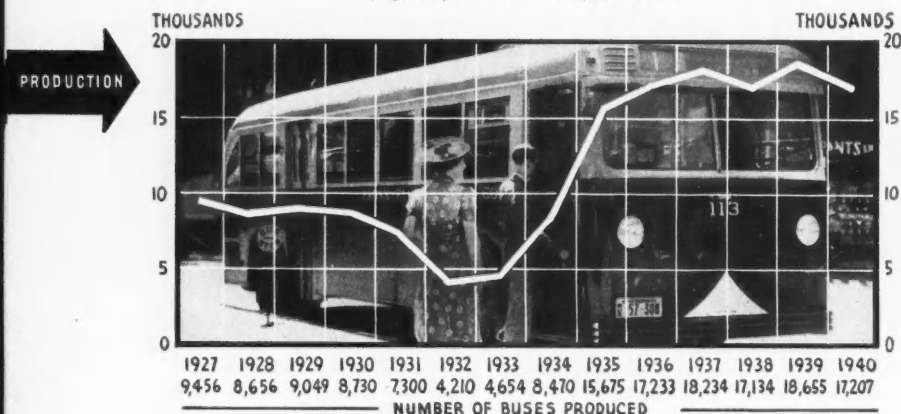
Automobile Parts and Accessories Industry in Canada

Year	Number of Plants	Capital Employed	Average No. of Employees	Salaries and Wages	Wholesale Value of Products	Value of Exports	Value of Imports*
1929..	65	\$19,401,890	4,708	\$6,711,434	\$31,965,078	\$2,350,232	\$44,772,091
1930..	57	16,654,683	3,580	4,527,179	18,401,587	1,587,571	23,358,763
1931..	73	15,617,986	2,899	3,429,841	12,600,256	829,838	14,442,570
1932..	76	17,332,257	3,832	3,874,618	12,161,456	1,846,033	11,588,190
1933..	83	16,975,182	3,776	3,569,483	13,001,185	1,337,302	10,836,590
1934..	80	19,393,687	5,172	5,498,360	24,378,762	2,415,222	19,474,767
1935..	82	23,260,333	6,614	7,411,434	32,684,252	2,925,667	24,517,832
1936..	85	24,730,610	6,842	7,776,726	33,378,508	2,899,946	24,044,191
1937..	88	28,440,176	8,416	10,358,098	46,631,643	2,919,981	32,774,858
1938..	97	27,480,773	7,900	9,349,996	36,980,424	2,679,265	24,694,191
1939..	97	30,290,876	8,119	9,846,641	38,711,807	3,349,673	25,308,352
1940..	Not available at time of going to press				10,712,365	47,580,369	

*Does not include automobile engines.

1940 Bus Output Reaches New High Mark

(Figures from "Bus Transportation")



141,300 Motor Buses in United States, 1940

(Figures as of December 31st from "Bus Transportation")

REVENUE	1933	1934	1935	1936	1937	1938	1939	1940
1. City.....	16,500	17,580	19,250	22,000	24,500	29,200	30,335	33,550
2. Intercity.....	26,314	22,820	23,750	24,750	24,750	20,000	18,614	18,000
Total (1 & 2) ..	42,814	40,400	43,000	46,750	49,250	49,200	48,949	51,550
3. Sightseeing and charter hire.....	2,186	2,600	2,000	2,250	2,250	2,300	2,601	2,450
Total (1 & 2 & 3)....	45,000	43,000	45,000	49,000	51,500	51,500	51,550	54,000
NON-REVENUE								
4. Schools.....	60,300	64,130	71,850	73,900	78,100	80,100	85,700	87,300
5. Hotel.....	350	300	300	300	300	300	300	.....
6. Industrial....	600	500	500	500	500	500	500	.....
7. Miscellaneous	250	200	200	200	200	200	200	.....
Total (4 & 5 & 6 & 7).....	61,500	65,130	72,850	74,900	79,100	81,100	86,700	.....
Grand Total..	106,500	108,130	117,850	123,900	130,600	132,600	138,250	141,300
OWNERSHIP OF REVENUE BUSES*								
a. Motor carriers	33,280	29,990	30,650	34,400	36,000	29,400	29,249	30,525
b. Electric railroads.....	11,000	11,600	12,600	12,850	13,700	18,000	18,000	19,250
c. Steam railroads.....	720	1,410	1,750	1,750	1,800	1,800	1,700	1,775

†About 6,000 buses in school service are operated part time as common carriers and consequently are included in the figure for that service.

*Excluding sightseeing and charter hire after 1937.

Motor Vehicle Registrations, 1895-1940

(Figures as of December 31st from Public Roads Administration)

Years	PASSENGER CARS		MOTOR TRUCKS		TOTAL MOTOR VEHICLES	
	Number	Per Cent Change	Number	Per Cent Change	Number	Per Cent Change
1895.....	4	.....	.....	.....	4	.....
1896.....	16	.....	.....	.....	16	.....
1897.....	90	.....	.....	.....	90	.....
1898.....	800	.....	.....	.....	800	.....
1899.....	3,200	.....	.....	.....	3,200	.....
1900.....	8,000	.....	.....	.....	8,000	.....
1901.....	14,800	+85	.....	.....	14,800	+85
1902.....	23,000	+55	.....	.....	23,000	+55
1903.....	32,920	+43	.....	.....	32,920	+43
1904.....	54,590	+66	700	.....	55,290	+68
1905.....	77,400	+42	1,400	+100	78,800	+43
1906.....	105,900	+37	2,200	+57	108,100	+37
1907.....	140,300	+33	2,900	+32	143,200	+32
1908.....	194,400	+38	4,000	+38	198,400	+38
1909.....	305,950	+57	6,050	+51	312,000	+57
1910.....	458,500	+50	10,000	+65	468,500	+50
1911.....	619,500	+35	20,000	+100	639,500	+36
1912.....	902,600	+46	41,400	+107	944,000	+48
1913.....	1,194,262	+32	63,800	+54	1,258,062	+33
1914.....	1,625,739	+36	85,600	+34	1,711,339	+36
1915.....	2,309,666	+42	136,000	+59	2,445,666	+43
1916.....	3,297,996	+43	215,000	+58	3,512,996	+44
1917.....	4,657,340	+42	326,000	+52	4,983,340	+42
1918.....	5,621,617	+21	525,000	+61	6,146,617	+23
1919.....	6,771,074	+21	794,372	+51	7,565,446	+23
1920.....	8,225,859	+22	1,006,082	+27	9,231,941	+22
1921.....	9,346,195	+14	1,117,100	+11	10,463,295	+13
1922.....	10,862,650	+16	1,375,725	+23	12,238,375	+17
1923.....	13,479,608	+24	1,612,569	+17	15,092,177	+23
1924.....	15,460,649	+15	2,134,724	+32	17,595,373	+17
1925.....	17,496,420	+13	2,440,854	+14	19,937,274	+13
1926.....	19,237,171	+10	2,764,222	+13	22,001,393	+10
1927.....	20,219,224	+5	2,914,019	+5	23,133,243	+5
1928.....	21,379,125	+6	3,113,999	+7	24,493,124	+6
1929.....	23,121,589	+8	3,379,854	+8	26,501,443	+8
1930.....	23,059,262	-0.3	3,486,019	+3.1	26,545,281	+0.2
1931.....	22,366,313	-3.0	3,466,571	-0.6	25,832,884	-2.5
1932.....	20,885,814	-6.6	3,229,315	-6.8	24,115,129	-6.7
1933.....	20,643,564	-1.2	3,230,668	+0.4	23,874,232	-1.0
1934.....	21,532,408	+4.4	3,419,254	+5.9	24,951,662	+4.6
1935.....	22,562,847	+4.9	3,664,429	+7.2	26,227,276	+5.1
1936.....	24,178,211	+7.1	3,987,339	+8.9	28,165,550	+7.3
1937.....	25,449,924	+5.4	4,255,296	+6.9	29,705,220	+5.5
1938.....	25,261,649	-0.7	4,224,031	-0.7	29,485,680	-0.7
1939.....	26,201,395	+3.7	4,413,692	+4.5	30,615,087	+3.8
1940.....	27,434,979	+4.7	4,590,386	+4.0	32,025,365	+4.6

REGISTRATIONS

Tax-Exempt Official Cars Not Included in the Above Registration①

Year	State		Total	Year	State		Total
	U. S. Cars†	and Local			U. S. Cars†	and Local	
1935...	94,503	189,454	283,957	1938...	109,761	257,469	367,230
1936...	99,038	200,230	299,268	1939...	121,270	237,513	358,783
1937...	104,792	231,280	336,072	1940...	143,175	284,321	427,496

①—Some states require government-owned vehicles to pay registration fees same as privately-owned vehicles. In such states the government-owned vehicles are included among the regular registrations in above table. †Source: Procurement Division, U. S. Treasury Department. Segregation of passenger cars from trucks by states is shown in table on page 12.

Car and Truck Registrations by States

(Figures from U. S. Public Roads Administration as of December 31st)

REGISTRATIONS

STATES	PASSENGER CARS			MOTOR TRUCKS		
	1938	1939	1940	1938	1939	1940
Alabama	250,074	266,582	277,006	51,916	58,890	62,847
Arizona	105,793	107,272	113,295	22,998	24,083	25,108
Arkansas	167,045	181,052	191,019	53,346	60,373	66,158
California	2,213,152*	2,298,608*	2,453,958*	297,715*	307,982*	319,701*
Colorado	277,860	286,913	293,792	54,914	56,574	58,318
Connecticut	369,693	387,299	417,828	70,642	73,571	75,839
Delaware	53,559*	56,744*	60,209*	10,519*	11,248*	11,554*
District of Columbia	148,614	150,955	147,986	14,249	13,718	13,928
Florida	352,978	378,116	415,420	70,043	73,241	79,790
Georgia	359,204	387,489	415,421	73,156	81,951	87,182
Idaho	109,716	121,714	129,582	28,135	31,512	33,758
Illinois	1,565,202*	1,624,031*	1,706,639*	215,663*	225,592*	219,175*
Indiana	795,118	824,196	857,849	127,670	136,646	136,157
Iowa	650,534	671,858*	691,257*	89,487	94,554*	102,712*
Kansas	476,587	475,856	480,235	97,398	98,616	102,433
Kentucky	350,531	367,903	387,836	63,676	69,285	75,891
Louisiana	248,754	263,188	283,636	77,445	76,903	81,793
Maine	154,027	157,605	161,982	42,663	43,262	43,914†
Maryland	339,896	365,376	385,110	55,451	59,688	59,422
Massachusetts	739,323	765,656	795,201	104,466	106,280	108,642
Michigan	1,269,894*	1,326,808	1,401,686	138,941*	145,503	150,875
Minnesota	705,271	721,473	746,888	115,970	118,577	124,463
Mississippi	163,709	186,989	198,086	51,486	57,097	60,927
Missouri	703,457	735,485	771,774	133,661	141,609	150,026
Montana	130,188*	135,839*	143,068*	41,138*	44,480*	47,964*
Nebraska	342,275	343,879	347,627	65,055	63,026	64,489
Nevada	30,899	32,781	35,373	7,525	7,990	8,735
New Hampshire	97,635*	102,644	105,322	26,744*	28,658	30,062
New Jersey	868,734	894,061	949,840	131,950	133,686	137,126
New Mexico	89,592	91,953	95,795	26,945	28,488	29,261
New York	2,259,468	2,324,451	2,407,253	324,655	331,282	335,761
North Carolina	461,141	486,548	504,489	76,101	86,949	87,457
North Dakota	141,195	142,523	145,903	33,061	33,978	36,384
Ohio	1,686,555*	1,702,761*	1,728,275*	183,694*	184,223*	190,654*
Oklahoma	441,184	457,991	469,891	94,215	98,172	104,828
Oregon	297,492	306,581	325,822	59,829†	62,749	67,756
Pennsylvania	1,730,893	1,803,366	1,883,094	245,573	251,421	262,755
Rhode Island	149,634	155,369	166,792	19,254	19,699	20,717
South Carolina	246,585	270,901	290,366	41,328	43,727	46,406
South Dakota	152,138	159,099	163,369	28,494	30,386	32,298
Tennessee	337,584	356,903	377,316	61,040†	67,053	70,667
Texas	1,231,424	1,282,398	1,343,673	316,919	335,641	350,440
Utah	107,038	111,656	117,687	19,966	21,215	22,234
Vermont	78,360	81,137	84,017	9,042†	9,576†	9,628†
Virginia	373,896	390,498	422,591	67,566	69,918	76,247
Washington	440,128	450,305	474,261	83,200	85,494	88,234
West Virginia	230,637	237,878	251,038	45,054	48,289	51,520
Wisconsin	703,807	705,751	751,664	136,484	142,907	149,251
Wyoming	63,176	64,954	66,758	17,589	17,930	18,899
Totals	25,261,649	26,201,395	27,434,979	4,224,031	4,413,692	4,590,386

*Buses included with motor trucks. In all other states, buses included with passenger cars.

†Includes freight trailers.

‡Trucks under 1,500 pounds capacity included with passenger cars.

Total Motor Vehicle Registrations by States

(Figures from U. S. Public Roads Administration as of December 31st, exclusive of publicly-owned vehicles)

STATES	1920	1930	1937	1938	1939	1940
Alabama	74,637	277,146	313,359	301,990	325,472	339,853
Arizona	34,601	110,525	129,210	128,791	131,355	138,403
Arkansas	59,082	220,204	229,867	220,391	241,425	257,177
California	583,623	2,041,356	2,484,653	2,510,867	2,606,590	2,773,659
Colorado	129,255	308,509	337,217	332,774	343,487	352,110
Connecticut	119,134	331,026	436,564	440,335	460,870	493,667
Delaware	18,300	56,109	63,599	64,078	67,992	71,763
Dist. of Columbia	34,161	156,676	184,119	162,863	164,673	161,914
Florida	73,914	327,801	418,145	423,021	451,357	495,210
Georgia	146,000	341,580	441,847	432,360	469,440	502,603
Idaho	50,861	119,077	142,110	137,851	153,226	163,340
Illinois	568,924	1,638,260	1,768,946	1,780,865	1,849,623	1,925,814
Indiana	333,067	875,763	956,016	922,788	960,842	994,006
Iowa	437,378	778,386	745,602	740,021	766,412	793,969
Kansas	294,159	594,523	586,685	573,985	574,472	582,668
Kentucky	112,683	331,002	404,455	414,207	437,188	463,727
Louisiana	73,000	275,283	323,498	326,199	340,091	365,429
Maine	62,907	186,157	200,907	196,690	200,867	205,896
Maryland	102,841	321,702	387,410	395,347	425,064	444,532
Massachusetts	274,498	846,206	846,556	843,789	871,936	903,843
Michigan	412,717	1,328,209	1,505,111	1,408,835	1,472,311	1,552,561
Minnesota	324,166	732,972	822,598	821,241	840,050	871,351
Mississippi	68,486	237,094	226,286	215,195	244,086	259,013
Missouri	297,008	761,600	835,895	837,118	877,094	921,800
Montana	60,650	135,168	173,892	171,326	180,319	191,032
Nebraska	219,000	426,229	412,726	407,330	406,905	412,116
Nevada	10,464	29,645	40,655	38,424	40,771	44,108
New Hampshire	34,680	112,183	125,939	124,379	131,302	135,384
New Jersey	227,737	852,850	994,497	1,000,684	1,027,747	1,086,966
New Mexico	22,100	84,150	118,106	116,537	120,441	125,056
New York	676,205	2,307,730	2,561,703	2,584,123	2,655,733	2,743,014
North Carolina	140,860	453,241	525,350	537,242	573,497	591,946
North Dakota	90,840	183,019	173,188	174,256	176,501	182,287
Ohio	621,390	1,759,363	1,876,132	1,870,249	1,886,984	1,918,929
Oklahoma	212,880	550,331	547,263	535,399	556,163	574,719
Oregon	103,790	273,625	360,348	357,321	369,330	393,578
Pennsylvania	570,164	1,753,521	1,984,821	1,976,466	2,054,787	2,145,849
Rhode Island	50,477	136,423	167,586	168,888	175,068	187,509
South Carolina	93,843	218,402	296,224	287,913	314,628	336,772
South Dakota	120,395	205,172	184,743	180,632	189,485	195,667
Tennessee	101,852	368,259	400,384	398,624	423,956	447,983
Texas	427,693	1,365,896	1,552,114	1,548,343	1,618,039	1,694,113
Utah	42,616	113,997	126,692	127,004	132,871	139,921
Vermont	31,625	86,624	88,958	87,402	90,713	93,645
Virginia	115,470	375,889	440,713	441,462	460,416	498,838
Washington	173,920	446,062	535,483	523,328	535,799	562,495
West Virginia	80,664	266,273	290,837	275,691	286,167	302,558
Wisconsin	293,298	782,562	854,374	840,291	848,658	900,915
Wyoming	23,926	61,501	81,837	80,765	82,884	85,657
Totals	9,231,941	26,545,281	29,705,220	29,485,680	30,615,087	32,025,365

REGISTRATIONS

City Automobile Registration, Street

One Passenger Car for Every 5 Persons in
Cities Above 100,000 Population

(Please credit The Reuben H. Donnelley Corporation)

REGISTRATIONS

Cities Above 100,000 Population	Pass. Cars ①	Trucks ①	Popula- tion ②	Pop. Per Pass. Car	Area Sq. ③ Miles	Paved Street ④ Mileage	Unpaved Street ⑤ Mileage	Total Street ⑥ Mileage
Akron, Ohio...	63,778	6,589	244,791	3.8	53.8	358	389	747
Albany, N. Y. . .	28,857	5,526	130,577	4.5	19.0	150	55	205
Atlanta, Ga. . .	72,601	12,455	302,288	4.2	37.0	475	129	604
Baltimore, Md. .	127,365	19,590	859,100	6.7	78.7	917	136	1,053
Birmingham, Ala.	44,530	7,367	267,583	6.0	50.3	485	600	1,085
Boston, Mass. . .	88,383	19,369	770,816	8.7	47.8 ⑦	700	4	704
Bridgeport, Conn.	32,649	5,073	147,121	4.5	17.9	160	74	234
Buffalo, N. Y. . .	134,964	15,046	575,901	4.3	42.0	639	33	672
Cambridge, Mass.	15,626	4,350	110,879	7.1	6.3	115	14	129
Camden, N. J. . .	19,643	3,229	117,536	6.0	8.7	153	17	170
Canton, Ohio. . .	28,903	3,348	108,401	3.8	14.0	131	204	335
Charlotte, N. C. ④	23,396	4,501	100,899	4.3	19.4	155	77	232
Chattanooga, Tenn.	21,343	3,569	128,163	6.0	27.4	278	270	548
Chicago, Ill. . . .	588,266	67,115	3,396,808	5.8	212.8	3,418	211	3,629
Cincinnati, Ohio.	93,086	12,205	455,610	4.9	72.0	823	125	948
Cleveland, Ohio.	209,037	23,100	878,336	4.2	73.4	992	161	1,153
Columbus, Ohio.	82,396	12,539	306,087	3.7	39.4	522	50	572
Dallas, Texas. . .	90,050	12,751	294,734	3.3	40.6	450	172	622
Dayton, Ohio. . .	62,970	6,250	210,718	3.3	23.4	210	171	381
Denver, Colo. . .	92,128	10,953	322,412	3.5	58.8	182	848	1,030
Des Moines, Iowa	41,612	5,772	159,819	3.8	53.8	340	260	600
Detroit, Mich. . .	438,499	37,923	1,623,452	3.7	139.6	1,882	725	2,607
Duluth, Minn. . .	23,508	3,163	101,065	4.3	62.3	180	300	480
Elizabeth, N. J. .	21,298	2,576	109,912	5.2	11.8	119	13	132
Erie, Pa.	29,208	3,284	116,955	4.0	20.0	171	131	302
Fall River, Mass..	13,208	2,296	115,428	8.7	33.9	166	81	247
Flint, Mich. . . .	46,105	3,554	151,543	3.3	29.3	193	310	503
Fort Wayne, Ind..	36,412	4,768	118,410	3.3	17.5	228	91	319
Fort Worth, Tex..	46,953	7,071	177,662	3.8	46.0	417	250	667
Gary, Ind.	25,781	2,513	111,719	4.3	40.3	228	62	290
Grand Rapids, Mich.	55,400	6,295	164,292	3.0	23.4	331	74	405
Hartford, Conn. .	37,987	6,375	166,267	4.4	16.5	179	18	197
Honolulu, T. H. ④	42,284 ⑤	6,714 ⑤	358,256 ⑤	6.1	604.0 ⑤	540	110	650
Houston, Tex. . .	106,758	15,337	384,514	3.6	72.0	390	1,110	1,500
Indianapolis, Ind.	111,902	18,211	386,972	3.5	53.6	665	242	907
Jacksonville, Fla..	35,871	6,904	173,065	4.8	30.2	255	330	585
Jersey City, N. J. .	40,393	6,303	301,173	7.4	19.2	186	19	205
Kansas City, Kans.	31,583	4,299	121,458	3.8	19.2	235	110	345
Kansas City, Mo. .	87,569	12,486	399,178	4.6	58.4	785	225	1,010
Knoxville, Tenn. .	21,656	3,870	111,580	5.2	25.3	320	355	675
Long Beach, Calif.	59,354	4,925	164,271	2.8	30.6	204	263	467
Los Angeles, Calif.	489,012	54,950	1,504,277	3.1	450.8	2,049	2,925	4,974
Louisville, Ky. . .	63,652	9,224	319,077	5.0	37.9	411	209	620
Lowell, Mass. . . .	12,323	2,173	101,389	8.2	12.9	125	102	227
Memphis, Tenn. . .	45,449	7,182	292,942	6.4	45.6 ⑦	657	32	689
Miami, Fla.	59,857	8,438	172,172	2.9	30.3	545	166	711
Milwaukee, Wisc.	130,248	15,715	587,472	4.5	29.6	669	150	819
Minneapolis, Minn.	134,296	14,201	492,370	3.7	58.7	296	685	981
Nashville, Tenn. ④	35,724	5,603	167,402	4.7	26.4	393	9	402
Newark, N. J. . . .	68,323	20,757	429,760	6.3	23.7	369	3	372
New Bedford, Mass.	16,186	2,486	110,341	6.8	19.4	211	5	216

ee Mileage, Population and Area, 1940

129 Vehicles Per Mile of Street, 28% of Vehicles and
29% of Population in These Cities

(When reproducing Motor Vehicle registrations)

Cities Above 100,000 Population	Pass. Cars ①	Trucks ①	Popula- tion ②	Pop. Per Pass. Car	Area Sq. ③	Paved Street ④	Unpaved Street ④	Total Street ④
					Miles	Mileage	Mileage	Mileage
New Haven, Conn.	31,036	6,657	160,605	5.2	17.8	166	53	219
New Orleans, La.	64,653	11,340	494,537	7.6	199.4	485	622	1,107
New York, N. Y. . .	798,345	121,249	7,454,995	9.3	319.9	3,496	1,998	5,494
Norfolk, Va.	23,546	3,636	144,332	6.1	38.6	450	200	650
Oakland, Calif. . .	97,956	10,021	302,163	3.1	52.8	564	132	696
Okla. City, Okla.	54,781	9,872	204,424	3.7	25.3	310	400	710
Omaha, Nebr. . . .	52,677	7,304	223,844	4.2	44.0	460	250	710
Paterson, N. J. . . .	29,777	5,212	139,666	4.7	8.4	140	67	207
Peoria, Ill.	32,226	3,777	105,087	3.3	12.4	167	75	242
Philadelphia, Pa.	253,113	39,069	1,931,334	7.6	128.0	2,018	26	2,044
Pittsburgh, Pa. . . .	110,665	18,488	671,659	6.1	54.0	920	440	1,360
Portland, Ore. . . .	96,862	12,207	305,394	3.2	63.5	849	245	1,094
Providence, R. I. . .	57,814	8,840	253,504	4.4	17.9	333	89	422
Reading, Pa.	23,246	3,487	110,568	4.8	9.5	139	32	171
Richmond, Va. . . .	42,164	8,708	193,042	4.6	24.0	367	36	403
Rochester, N. Y. . .	99,015	9,222	324,975	3.3	34.3	459	67	526
Sacramento, Cal. ①	42,574	8,366	105,958	2.5	13.5	275	14	289
St. Louis, Mo.	171,410	26,773	816,048	4.8	61.3	957	93	1,050
St. Paul, Minn. . . .	76,221	9,179	287,736	3.8	52.2	252	429	681
Salt Lake City, Utah	40,474	6,068	149,934	3.7	52.8	131	268	399
San Antonio, Tex. . .	67,023	10,872	253,854	3.8	36.0	400	350	750
San Diego, Calif. . .	52,440	4,831	203,341	3.9	95.3	568	106	674
San Francisco, Cal.	157,594	23,924	634,536	4.0	45.2	720	180	900
Scranton, Pa.	19,595	4,077	140,404	7.2	19.5	102	12	114
Seattle, Wash. . . .	111,246	13,474	368,302	3.3	68.5	780	277	1,057
Somerville, Mass. . .	12,247	2,615	102,177	8.3	4.0	90	11	101
South Bend, Ind. . .	29,468	3,836	101,268	3.4	20.1	202	116	318
Spokane, Wash. . . .	33,674	5,853	122,001	3.6	41.5	181	565	746
Springfield, Mass. .	30,122	4,212	149,554	5.0	32.5	234	11	245
Syracuse, N. Y. . . .	51,936	6,428	205,967	4.0	25.0	239	154	393
Tacoma, Wash. . . .	33,062	4,692	109,408	3.3	46.5	236	425	661
Tampa, Fla.	29,966	5,476	108,391	3.6	19.0	311	150	461
Toledo, Ohio.	79,301	7,881	282,349	3.6	37.0	477	122	599
Trenton, N. J.	32,250	6,049	124,697	3.9	8.0	140	20	160
Tulsa, Okla.	40,925	7,630	142,157	3.5	21.8	280	227	507
Utica, N. Y.	20,956	3,109	100,518	4.9	16.2	146	28	174
Washington, D.C.	148,499	16,411	663,091	4.5	60.0	750	114	864
Wichita, Kans. . . .	35,746	5,880	114,966	3.2	21.0	250	110	360
Wilmington, Del. . .	25,336	3,889	112,504	4.4	15.8	135	10	145
Worcester, Mass. . .	32,069	4,305	193,694	6.0	37.1	263	222	485
Yonkers, N. Y. . . .	24,850	2,641	142,598	5.7	19.0	236	10	246
Youngstown, Ohio	36,340	4,006	167,720	4.6	33.5	290	130	420

Total, 93 Cities 7,631,552 1,041,859 38,346,245 5.02 5,037.0 45,020 21,991 67,011

①—Total car and truck registrations by The Reuben H. Donnelley Corp. as of July 1, 1940.

②—Figures furnished by city engineers of all cities surveyed by Automobile Mfrs. Assoc., as of Jan. 1, 1940.

③—1938 Data.

④—Figures for Area and street mileage are as of January 1, 1941.

⑤—Data refers to entire Island of Oahu.

⑥—Figures for area and street mileage are as of January 1, 1937.

⑦—U. S. Census of Population, 1940.



Standing of States in Registrations, 1940

REGISTRATIONS

Motor Vehicle Registrations	Numerical Increase from 1939	Per Cent Increase from 1939	Population Per Passenger Car
1 Cal.. 2,773,659	1 Cal... 167,069	1 Fla..... 9.7	1 Cal..... 2.8
2 N. Y. 2,743,014	2 Pa.... 91,062	2 Va..... 8.3	2 Nev..... 3.1
3 Pa.... 2,145,849	3 N. Y.. 87,231	3 Nev..... 8.2	3 Ore..... 3.3
4 Ill... 1,925,814	4 Mich.. 80,250	4 La..... 7.5	4 Iowa... 3.7
5 Ohio 1,918,929	5 Ill.... 76,191	5 Conn... 7.1	5 Mich.... 3.7
6 Tex.. 1,694,113	6 Tex.... 76,074	6 Ga..... 7.1	6 Minn.... 3.7
7 Mich. 1,552,561	7 N. J... 59,219	7 R. I.... 7.1	7 Wash... 3.7
8 N. J.. 1,086,966	8 Wisc.. 52,257	8 S. C.... 7.0	8 Colo.... 3.8
9 Ind... 994,006	9 Mo.... 44,706	9 Idaho... 6.6	9 Kan.... 3.8
10 Mo... 921,800	10 Fla... 43,853	10 Ore.... 6.6	10 Nebr... 3.8
11 Mass. 903,843	11 Va.... 38,422	11 Ark..... 6.5	11 Wyo.... 3.8
12 Wisc. 900,915	12 Ind... 33,164	12 Cal.... 6.4	12 Mont... 3.9
13 Minn. 871,351	13 Ga.... 33,163	13 Wisc... 6.2	13 S. D... 3.9
14 Iowa. 793,969	14 Conn. 32,797	14 Ky..... 6.1	14 Ind.... 4.0
15 N. C. 591,946	15 Ohio. 31,945	15 Miss... 6.1	15 Ohio... 4.0
16 Kan.. 582,668	16 Mass.. 31,907	16 Mont... 5.9	16 Conn... 4.1
17 Okla. 574,719	17 Minn.. 31,301	17 N. J.... 5.8	17 Idaho... 4.1
18 Wash. 562,495	18 Iowa.. 27,557	18 Tenn... 5.7	18 Wisc... 4.2
19 Ga... 502,603	19 Wash. 26,696	19 W. Va.. 5.7	19 R. I.... 4.3
20 Va... 498,838	20 Ky.... 26,539	20 Del.... 5.5	20 Vt.... 4.3
21 Fla... 495,210	21 La.... 25,338	21 Mich... 5.5	21 Ariz.... 4.4
22 Conn. 493,667	22 Ore.... 24,248	22 Ariz.... 5.4	22 Del.... 4.4
23 Ky... 463,727	23 Tenn.. 24,027	23 Utah... 5.3	23 N. J.... 4.4
24 Tenn. 447,983	24 S. C... 22,144	24 Mo.... 5.1	24 N. D... 4.4
25 Md... 444,532	25 Md.... 19,468	25 Wash... 5.0	25 D. C... 4.5
26 Nebr. 412,116	26 Okla.. 18,556	26 Tex.... 4.7	26 Fla.... 4.6
27 Ore... 393,578	27 N. C... 18,449	27 Md.... 4.6	27 Ill.... 4.6
28 La.... 365,429	28 W. Va. 16,391	28 Ala.... 4.4	28 Md.... 4.7
29 Colo. 352,110	29 Ark... 15,752	29 Pa.... 4.4	29 N. H... 4.7
30 Ala... 339,853	30 Miss.. 14,927	30 Ill..... 4.1	30 Utah... 4.7
31 S. C.. 336,772	31 Ala.... 14,381	31 N. M.... 3.8	31 Tex.... 4.8
32 W. Va. 302,558	32 R. I... 12,441	32 Mass... 3.7	32 Mo.... 4.9
33 Miss. 259,013	33 Mont.. 10,713	33 Minn... 3.7	33 Okla... 5.0
34 Ark... 257,177	34 Idaho. 10,114	34 Iowa... 3.6	34 Me.... 5.2
35 Me... 205,896	35 Colo... 8,623	35 Ind.... 3.5	35 Pa.... 5.3
36 S. D.. 195,667	36 Kan... 8,196	36 N. Y.... 3.3	36 Mass... 5.4
37 Mont. 191,032	37 Utah... 7,050	37 N. D... 3.3	37 N. M... 5.6
38 R. I.. 187,509	38 Ariz... 7,048	38 Okla... 3.3	38 N. Y... 5.6
39 N. D. 182,287	39 S. D... 6,182	39 S. D... 3.3	39 Va.... 6.3
40 Idaho 163,340	40 N. D... 5,786	40 Wyo.... 4.0	40 S. C... 6.5
41 D. C. 161,914	41 Nebr... 5,211	41 N. C.... 4.1	41 N. C... 7.1
42 Ariz. 138,403	42 Me.... 5,029	42 Vt.... 3.2	42 Ky.... 7.3
43 Utah 139,921	43 N. M... 4,615	43 N. H... 3.1	43 Ga.... 7.5
44 N. H. 135,384	44 N. H... 4,082	44 Colo... 2.5	44 W. Va.. 7.6
45 N. M. 125,056	45 Del... 3,771	45 Me.... 2.5	45 Tenn... 7.7
46 Vt... 93,645	46 Nev... 3,337	46 Ohio... 1.7	46 La.... 8.3
47 Wyo. 85,657	47 Vt.... 2,932	47 Kan... 1.4	47 Ala... 10.2
48 Del... 71,763	48 Wyo... 2,773	48 Nebr... 1.3	48 Ark... 10.2
49 Nev... 44,108	49 D. C... -2,759	49 D. C... -1.7	49 Miss... 11.0
U.S... 32,025,365	U.S... 1,410,278	U.S..... 4.6	U.S..... 4.8.

427,000 Motor Vehicles Publicly Owned

(SOURCE: U. S. Public Roads Administration)

State	Total Publicly Owned Motor Vehicles ①	FEDERAL ^② MOTOR VEHICLES			STATE, COUNTY AND MUNICIPAL MOTOR VEHICLES ^③		
		Pas- senger Cars	Trucks, Tractor Trucks, Etc.	Total Motor Vehicles	Pas- senger Cars	Trucks, Tractor Trucks, Etc.	Total Motor Vehicles
Alabama.....	7,270	463	2,051	2,514	.....	.....	4,786
Arizona.....	5,048	699	2,137	2,806	830	1,312	2,242
Arkansas.....	4,820	433	1,937	2,370	1,430	1,020	2,450
California.....	36,907	1,690	8,269	9,959	.....	.....	26,948
Colorado.....	3,199	393	2,806	3,199	.....	.....	.....
Connecticut.....	4,796	103	726	829	1,463	2,504	3,967
Delaware.....	1,210	33	384	427	.....	.....	733
Florida.....	5,468	472	1,808	2,390	2,084	4,034	6,088
Georgia.....	10,494	778	4,214	4,992	1,363	4,139	5,502
Idaho.....	3,726	213	1,723	1,936	653	1,137	1,790
Illinois.....	15,392	489	4,316	4,805	.....	.....	10,587
Indiana.....	9,234	219	1,842	2,061	1,998	5,175	7,173
Iowa.....	6,916	205	1,710	1,915	1,047	5,954	7,001
Kansas.....	1,712	274	1,438	1,712	.....	.....	.....
Kentucky.....	7,098	320	2,073	2,393	1,004	3,701	4,705
Louisiana.....	7,401	681	1,770	2,421	1,958	3,025	4,980
Maine.....	2,699	163	530	693	650	1,356	2,006
Maryland.....	5,637	535	2,899	3,434	1,084	1,119	2,203
Massachusetts.....	4,019	632	3,387	4,019	.....	.....	④
Michigan.....	4,010	425	3,585	4,010	.....	.....	.....
Minnesota.....	8,511	466	2,660	3,126	1,848	3,837	5,385
Mississippi.....	5,426	260	1,725	1,985	.....	.....	3,441
Missouri.....	4,915	402	2,245	2,647	560	1,706	2,268
Montana.....	5,084	462	1,932	2,394	.....	.....	2,690
Nebraska.....	5,711	293	1,458	1,751	587	3,373	3,960
Nevada.....	1,600	194	890	884	179	537	716
New Hampshire.....	725	49	676	725	.....	.....	.....
New Jersey.....	14,247	332	3,158	3,490	4,687	6,070	10,757
New Mexico.....	3,103	362	1,477	1,839	808	456	1,264
New York.....	35,298	924	6,391	7,315	9,002	18,981	27,983
North Carolina.....	18,175	457	4,268	4,725	5,300	.....	13,450
North Dakota.....	1,729	224	700	924	199	606	805
Ohio.....	23,710	487	2,765	3,252	11,406	9,052	20,458
Oklahoma.....	10,333	595	2,115	2,710	.....	.....	7,623
Oregon.....	7,750	405	2,943	3,348	1,862	2,540	4,402
Pennsylvania.....	23,853	626	3,780	4,406	6,141	13,306	19,447
Rhode Island.....	2,208	98	966	664	528	1,016	1,544
South Carolina.....	6,916	311	1,564	1,875	956	.....	5,041
South Dakota.....	2,948	291	1,244	1,535	424	989	1,413
Tennessee.....	11,167	726	2,399	3,025	.....	.....	8,162
Texas.....	25,200	1,473	5,840	7,313	7,554	10,333	17,887
Utah.....	3,713	317	1,782	2,099	676	938	1,614
Vermont.....	827	108	719	827	.....	.....	.....
Virginia.....	10,353	601	3,761	4,362	2,314	3,677	5,991
Washington.....	13,753	656	5,335	5,991	3,562	4,200	7,762
West Virginia.....	6,903	191	1,090	1,271	1,840	3,692	5,532
Wisconsin.....	12,140	318	2,685	2,993	1,696	7,461	9,157
Wyoming.....	2,509	185	1,382	1,567	453	489	942
District of Columbia.....	3,306	497	1,363	1,860	718	728	1,446
At Large.....	3,407	1,202	2,205	3,407	.....	.....	.....
Total.....	427,496	22,662	120,513	143,175	79,931	128,165	284,321

①—These totals do not include trailers, semi-trailers, and motorcycles.

②—Obtained by the Procurement Division, Dept. of Treasury, by means of a circular letter.

③—Some states give state-owned vehicles only; others exclude certain classes, such as fire apparatus and police vehicles. These totals include a small number of federal vehicles in Indiana, Kentucky, Louisiana, Montana, Nebraska, New York, Pennsylvania, and Virginia. Many federal agencies issue their own plates, and state registrations are generally issued to federal vehicles only upon application. For this reason, the duplication involved is negligible.

④—Approximately 7,500, but cannot be segregated by type from private and commercial vehicles.



40% of All Motor Vehicles Registered on F

68% of Trucks and 38% of Automobiles in Rural Areas

(SOURCE: Public

Road
hav

REGISTRATIONS

State	Farms and Unincor- porated Areas	Incorporated places			
		2,500 or Less	2,501 to 5,000	5,001 to 10,000	10,001 to 25,000
Alabama	158,275	30,630	19,369	18,064	24,826
Arizona	65,279	7,714	5,604	18,491	16,865
Arkansas	134,699	35,932	22,225	18,870	28,670
California	715,141	105,090	114,484	191,912	256,058
Colorado	95,986	53,633	22,122	22,065	28,173
Connecticut	149,481	4,468	3,946	7,018	57,980
Delaware	29,795	10,007	7,123	1,835	10,001
Florida	131,634	38,491	35,991	30,907	60,140
Georgia	211,479	55,394	30,078	28,755	46,934
Idaho	93,259	27,789	19,106	6,834	29,291
Illinois	373,151	207,423	88,181	130,883	147,296
Indiana	397,327	118,429	38,928	71,231	72,602
Iowa	246,546	241,610	73,775	60,073	57,381
Kansas	213,130	115,250	42,902	34,335	74,516
Kentucky	251,490	37,180	18,821	25,115	16,824
Louisiana	141,079	32,448	20,180	27,704	18,600
Maine		82,513	34,170	31,606	35,348
Maryland	195,518	30,708	16,717	8,961	24,238
Massachusetts		50,917	58,241	87,734	169,904
Michigan	360,417	181,796	82,465	105,830	129,705
Minnesota	339,176	174,400	43,264	63,276	60,534
Mississippi	151,163	29,406	16,120	13,791	31,847
Missouri	278,075	136,605	51,461	53,873	78,793
Montana	101,175	24,389	9,831	13,979	27,551
Nebraska	191,301	96,978	22,792	19,432	32,259
Nevada	18,676	4,780	3,372	8,694	10,237
New Hampshire		57,953	16,722	9,905	26,563
New Jersey	185,100	62,956	54,036	94,651	146,166
New Mexico	42,906	11,898	6,461	32,193	18,811
New York	549,171	116,178	90,209	76,253	191,008
North Carolina	275,031	109,304	36,390	38,394	58,191
North Dakota	96,460	43,579	2,291	12,882	17,231
Ohio	611,369	169,534	81,020	126,634	157,220
Oklahoma	199,876	78,587	32,109	46,217	81,719
Oregon	166,276	54,448	19,272	20,183	23,895
Pennsylvania	619,291	172,060	149,524	194,309	266,787
Rhode Island		4,229	12,962	15,292	21,713
South Carolina	172,064	38,526	24,266	23,464	27,563
South Dakota	93,939	54,617	12,212	19,498	23,980
Tennessee	188,455	31,894	28,881	27,291	27,309
Texas	587,936	153,919	115,049	112,660	140,937
Utah	28,591	27,665	13,376	7,182	7,393
Vermont	48,950	15,253	4,179	12,908	7,593
Virginia	325,537	24,353	14,382	20,970	14,234
Washington	243,975	60,226	27,485	13,227	39,826
West Virginia	133,847	38,722	16,514	21,672	26,914
Wisconsin	280,216	149,908	55,080	42,487	68,341
Wyoming	37,911	19,164	4,941	5,984	28,267
Dist. of Columbia					
Total All Vehicles*	9,930,153	3,428,953	1,718,629	2,075,524	2,941,368
Total Trucks	1,569,853	559,544	251,606	285,955	374,392
Total Automobiles	7,879,046	2,659,606	1,380,943	1,686,912	2,443,338
					1,902,453

*Includes automobiles, trucks, tractor-trucks, buses, trailers, semi-trailers and motorcycles.

Farms and in Towns Under 2500 Population

—Survey Includes Privately Owned Vehicles Only

Roads Administration)

having a population of—

	50,001 to 100,000	100,001 to 250,000	250,001 to 500,000	More Than 500,000	Total	State
	30,431	.....	47,558	.....	346,126	Alabama
	29,963	.....	.....	.....	143,916	Arizona
	21,695	.....	.....	.....	269,321	Arkansas
	266,272	200,518	99,217	818,698	2,957,489	California
	14,608	.....	103,514	.....	355,192	Colorado
	33,007	132,643	.....	.....	502,421	Connecticut
	.....	26,678	.....	.....	75,438	Delaware
	22,185	148,383	.....	.....	517,306	Florida
	56,739	.....	83,688	.....	519,197	Georgia
	.....	.....	.....	.....	186,123	Idaho
	159,921	34,006	.....	657,229	1,961,892	Illinois
	74,666	90,853	116,795	.....	1,074,349	Indiana
	92,130	57,885	.....	.....	892,945	Iowa
	23,546	73,275	.....	.....	589,519	Kansas
	11,347	.....	64,212	.....	464,985	Kentucky
	30,087	.....	85,567	.....	380,710	Louisiana
	18,765	.....	.....	.....	217,693	Maine
	.....	.....	.....	158,806	451,793	Maryland
	120,588	161,059	.....	109,767	920,905	Massachusetts
	132,164	102,581	.....	484,295	1,718,096	Michigan
	.....	25,010	248,959	.....	963,956	Minnesota
	14,249	.....	.....	.....	264,716	Mississippi
	33,321	.....	100,124	207,004	962,853	Missouri
	.....	.....	.....	.....	197,737	Montana
	31,054	64,572	.....	.....	458,388	Nebraska
	.....	.....	.....	.....	45,759	Nevada
	15,553	.....	.....	.....	142,240	New Hampshire
	111,202	115,027	166,547	.....	1,100,157	New Jersey
	.....	.....	.....	.....	128,318	New Mexico
	106,406	128,495	70,079	1,374,895	2,805,111	New York
	59,942	24,129	.....	.....	638,194	North Carolina
	.....	.....	.....	.....	183,718	North Dakota
	73,650	199,447	293,150	214,407	2,068,425	Ohio
	.....	125,124	.....	.....	583,558	Oklahoma
	.....	.....	100,875	.....	395,411	Oregon
	172,949	76,383	.....	432,270	2,189,957	Pennsylvania
	18,997	.....	48,512	.....	189,445	Rhode Island
	36,118	.....	.....	.....	343,519	South Carolina
	.....	.....	.....	.....	219,531	South Dakota
	.....	80,428	59,870	.....	449,624	Tennessee
	149,929	53,159	361,518	.....	1,754,553	Texas
	.....	44,882	.....	.....	141,071	Utah
	.....	.....	.....	.....	96,393	Vermont
	32,434	55,343	.....	.....	513,714	Virginia
	.....	71,064	106,830	.....	588,761	Washington
	52,675	.....	.....	.....	307,624	West Virginia
	39,247	.....	.....	147,530	911,465	Wisconsin
	.....	.....	.....	.....	96,267	Wyoming
	.....	.....	.....	163,501	163,501	District of Columbia
	2,085,840	2,090,944	2,157,025	4,768,402	33,449,384	Total All Vehicles*
	250,908	241,478	262,413	537,056	4,590,386	Total Trucks
	1,748,979	1,764,461	1,816,124	4,090,535	27,372,397	Total Automobiles

REGISTRATIONS

1,298,000 U. S. Trailer Registrations in 1940

(SOURCE: U. S. Public Roads Administration)

REGISTRATIONS

States	1940	1939	States	1940	1939
Alabama.....	5,263	4,574	New Hampshire....	6,096	5,708
Arizona.....	5,000	4,628	New Jersey.....	8,218	7,679
Arkansas.....	11,519	10,707	New Mexico.....	2,853	2,762
California.....	167,929	155,316	New York.....	51,251	46,845
Colorado.....	1,703	1,574	North Carolina....	44,386	44,882
Connecticut.....	6,693	5,951	North Dakota.....	1,162	984
Delaware.....	3,375	3,047	Ohio.....	138,070	134,174
Florida.....	20,360	18,793	Oklahoma.....	7,589	14,757
Georgia.....	14,926	13,617	Oregon.....	(2)	(1)
Idaho.....	22,134	21,513	Pennsylvania.....	32,840	30,738
Illinois.....	28,962	24,966	Rhode Island.....	1,168	686
Indiana.....	75,005	71,584	South Carolina....	5,799	5,598
Iowa.....	96,102	98,292	South Dakota.....	23,395	21,821
Kansas.....	5,589	5,795	Tennessee.....	(2)	(2)
Kentucky.....	(2)	(1)	Texas.....	55,666	54,514
Louisiana.....	13,939	13,673	Utah.....	610	558
Maine.....	10,990	10,658	Vermont.....	2,315	2,026
Maryland.....	5,448	4,641	Virginia.....	12,630	9,877
Massachusetts....	16,092	14,585	Washington.....	23,859	20,882
Michigan.....	160,762	154,262	West Virginia.....	3,715	3,382
Minnesota.....	90,168	42,175	Wisconsin.....	7,019	5,783
Mississippi.....	5,323	4,149	Wyoming.....	10,313	10,795
Missouri.....	38,632	34,317	District of Columbia.	929	788
Montana.....	6,171	4,195			
Nebraska.....	45,007	43,473			
Nevada.....	1,512	1,361			
			Totals.....	1,298,487	1,193,085

Note—Figures include passenger car trailers.

①—Commercial full trailers included with trucks.

①—Not reported.

②—Classified with trucks.

Classification of Trailers According to Type

(SOURCE: U. S. Public Roads Administration, Dec. 31, 1939)

State	Car, Camp Trailers, Etc.	COMMERCIAL TRAILERS			Total	Total
		Full Trailers	Semi-Trailers	Trailers and Semi-Trailers		
Arizona.....	2,769	—	—	1,859	1,859	4,628
Connecticut.....	4,827	658	466	—	1,124	5,951
Florida.....	12,819	—	—	5,974	5,974	18,793
Georgia.....	2,101	—	—	11,516	11,516	13,617
Idaho.....	21,029	—	—	484	484	21,513
Indiana.....	3,509	61,205	6,870	—	68,075	71,584
Iowa.....	68,985	—	—	29,307	29,307	98,292
Maine.....	10,345	—	313	—	313	10,658
Michigan.....	10,851	—	—	143,411	143,411	154,262
Minnesota.....	36,290	—	—	5,885	5,885	42,175
Mississippi.....	4,107	40	2	—	42	4,149
New Hampshire..	1,125	235	5,348	—	5,583	5,708
North Dakota....	722	—	262	—	262	984
Oklahoma.....	7,361	—	—	7,396	7,396	14,757
South Carolina....	—	—	—	5,598	5,598	5,598
South Dakota....	21,074	—	—	747	747	21,821
Virginia.....	4,161	—	—	5,716	5,716	9,877
Washington.....	17,234	—	—	3,648	3,648	20,882
Totals.....	228,309	62,138	13,261	221,541	296,940	525,249

Note—Data excludes publicly owned trailers. Segregation of trailers according to type not available in other states.

Trends in U. S. Registrations by Age of Car

(SOURCE: R. L. Polk & Co.)

(Number of Passenger Cars in Thousands)

Age of Car in Years		July 1, 1935	July 1, 1936	July 1, 1937	July 1, 1938	July 1, 1939	July 1, 1940
Under 1.....	Number.....	1386	2181	2383	1231	1822	2321
	%.....	6.8	10.0	10.1	5.3	7.5	9.2
1-2.....	Number.....	1807	2378	3324	3536	1739	2423
	%.....	8.9	11.0	14.1	15.2	7.2	9.6
	% Less than 2...	15.7	21.0	24.2	20.5	14.7	18.8
2-3.....	Number.....	1420	1825	2351	3262	3532	1746
	%.....	7.0	8.3	10.0	14.0	14.6	6.9
	% Less than 3...	22.7	29.3	34.2	34.5	29.3	25.7
3-4.....	Number.....	1050	1422	1824	2261	3261	3499
	%.....	5.2	6.5	7.8	9.7	13.5	13.8
	% Less than 4...	27.9	35.8	42.0	44.2	42.8	39.5
4-5.....	Number.....	1867	1051	1409	1759	2258	3234
	%.....	9.2	4.8	6.0	7.6	9.3	12.7
	% Less than 5...	37.1	40.6	48.0	51.8	52.1	52.2
5-6.....	Number.....	2362	1851	1041	1333	1759	2220
	%.....	11.6	8.5	4.4	5.7	7.3	8.8
	% Less than 6...	48.7	49.1	52.4	57.5	59.4	61.0
6-7.....	Number.....	3613	2288	1816	975	1326	1697
	%.....	17.8	10.4	7.7	4.2	5.5	6.7
	% Less than 7...	66.5	59.5	60.1	61.7	64.9	67.7
7-8.....	Number.....	2439	3405	2164	1682	954	1250
	%.....	12.0	15.5	9.2	7.2	3.9	4.9
	% Less than 8...	78.5	75.0	69.3	68.9	68.8	72.6
8-9.....	Number.....	1526	2160	3048	1914	1610	865
	%.....	7.5	9.9	13.0	8.2	6.6	3.4
	% Less than 9...	86.0	84.9	82.3	77.1	75.4	76.0
9-10.....	Number.....	1282	1232	1771	2481	1738	1438
	%.....	6.3	5.6	7.5	10.7	7.2	5.7
	% Less than 10...	92.3	90.5	89.8	87.8	82.6	81.7
10 and Over.....	Number.....	1565	2105	2365	2832	4232	4675
	%.....	7.7	9.5	10.2	12.2	17.4	18.3
	% All Ages.....	100.0	100.0	100.0	100.0	100.0	100.0
Total.....		20,317	21,898	23,496	23,266	24,231	25,368

REGISTRATIONS

NOTE: The age in years is approximate only. The actual count is made by States as of July 1st in most instances. In a few States the count is taken later, but not later than Oct. 1st. The age of passenger cars for any model year varies somewhat due to the varying dates in the introduction of new models.

Percentages are figured on the number of registrations for which the age of car is given. The number of registered cars with age not given has steadily decreased during the period covered as follows:

1935—432,252
1936—397,289

1937—346,935
1938—272,044

1939—278,571
1940—188,489

The actual number of passenger cars on the road is somewhat less than the figures given because of scrappage, even excluding cars with age not given.

Large Fleets Owned by Private Shippers

REGISTRATIONS

	No. of Trac- Trucks	tors	Trail- ers	Cars		No. of Trac- Trucks	tors	Trail- ers	Cars
Bell Tel. Co's.....	18,200			4,800	Goodyear Tr. & Rub. Co.	528	9	55	969
Standard Oil Co., N. J.	12,000			4,000	Consol. Laund'r's Corp.	525	4	4	17
Nat'l Dry Products Corp.	8,805	174	422	950	Phila. Electric Co.....	528			329
The Borden Company.....	7,535	800		820	American Ice Co.....	520	8		2
Standard Oil Co., Ind.	6,401	41	72	1,836	Sun Oil Co.....	524		220	1,316
Continental Baking Co.	4,389	56	58	261	Langendorf United Bak.	486	12	11	16
Socony-Vacuum Oil Co.	3,997			1,683	Telling Belle Vernon...	483	10	11	11
General Baking Co.....	3,893	57	59	87	Brink's, Inc.....	490			27
Amer. News. Pub. Assoc.	3,163				Standard Oil Co., Ohio	341	143	178	352
Hertz Drivursel'f St'ns...	2,915			537	R. H. Macy & Co.....	448	5	10	10
Quality Bakers of Amer.	2,500	50		100	Columbia Baking Co....	446	2	4	6
Armour & Co.....	2,369	130	156	3,799	Gen'l Petrol. Corp., Calif.	413	25	85	295
B. F. Goodrich Co.....	2,377	5	36	60	American Stores Co....	418	12	16	
Ward Baking Co.....	2,352	3	5	38	Horton M'r Lines, Inc...	421	300	300	20
Standard Brands, Inc...	2,326			452	Fed. Water Serv. Corp.	420			385
Middle West Service Co.	1,945		313	1,074	West. Maryland Dairy...	380	20	20	25
Cities Service Oil Co...	1,834	124	327	679	Helms Bakeries.....	397	2	6	6
Sheffield Farms Co...	1,643	77	146	210	U. S. Tobacco Co.....	398	1	3	65
Pac Gas & Elect Co...	1,685	3	4	1,078	Drake Bakeries, Inc...	391			15
Met'r p. Distributors, Inc.	1,645			14	Fischer Baking Co.....	373	3	3	10
Jewel Tea Co.....	1,625			90	Western Union Tel. Co.	372			135
Comm. & South. Corp...	1,616			2,956	Wagner Baking Co....	365	7	7	14
National Biscuit Co...	1,600	10			Consol. Motor Lines...	92	275	345	1
Kraft Cheese Co.....	1,490	12	12	315	Borden's Fm. Prod., Mich.	350	15	70	5
Shell Union Oil Corp...	1,336	60		1,645	Sears Roebuck & Co...	326	39	76	35
The Texas Co.....	1,391		2	1,668	City Bkg. Co. & Sub...	354	5	6	15
Standard Oil Co., Calif.	1,305	25	25	965	N. Y. Pwr. & Lgt. Corp.	356	2	90	143
The Pure Oil Co.....	1,000	200		1,500	Crane Company.....	352	5	10	873
Lever Bros. Co.....	1,148			78	St. Louis Dairy Co...	349	7	14	6
Gen'l Ice Cream Co...	1,132	4	6	190	P. Ballantine & Sons...	324	8	9	214
The Atlantic Ref'ng Co.	1,024	70	71	562	Petrol. Heat & Pwr. Co.	293	29	29	
Shell Oil Co. (Pac. Coast)	1,003	60	60	963	F. & M. Schaefer Brg. Co.	309	12	23	40
Bowman Dairy Co.....	1,032	19	72	79	Postal Tel. Cable Co...	311		199	261
Atlantic Company.....	1,050		1	150	Roadway Express, Inc.	114	194	197	19
Firestone Tr. & Rub. Co.	1,029	10	66	1,153	Jacob Ruppert Corp...	280	24	24	6
Interstate Baking Corp.	1,018	10		2	Burns Bros.....	302			18
Gulf Oil Corp.....	989	33	51	1,387	Commercial Motor Frgt.	140	159	280	13
The Grand Union Co...	1,000			75	Standard Oil Co., Pa...	246	52	52	111
Union Oil Co., Calif...	950	32	120	121	Pacif. Fr't & Prod. Co.	295		29	42
Consol. Edison Sys. Co.	935			366	Wesson Oil Co.....	245	35	35	755
Phillips Petroleum Co...	899	34	34	640	Hoffman Beverage Co.	272	11	24	175
Am. Gas & Elec. Corp...	916	9		999	Carolina Pwr. & Lgt. Co.	275	2	84	68
Hathaway Bakeries, Inc.	900	6	6	7	L. Bomberger & Co...	267	4	10	5
Safeway Stores, Inc...	562	322	438		Geo. A. Hormel & Co...	245	18	18	585
Arden Farms Co.....	875				Atlanta Laund., Inc...	255	6		10
Omar, Inc.....	862		5	40	Continental Oil Co....	247	11	83	510
Sinclair Refining Co...	819	26	30	212	Spaulding Bakeries...	249	8	8	9
Gordon Baking Co...	711	49	47	10	Interstate Disp., Inc...	182	72	110	31
General Mills.....	693			527	Richfield Oil Corp...	225	25	37	130
Freihofer Baking Co...	678	5		11	American Can Co.....	100	150	300	450
Keeshin Fgt. Lines, Inc.	233	480	911	26	Marshall Field & Co...	242	8	30	15
So. Calif. Edison Co., Ltd.	641	34	223	481	David Stand. Bread Co.	243			15
The Ohio Oil Co.....	600		164	470	City Ice & Fuel, Clev...	225	16	18	12
Fairmont Creamery Co.	589	78	81	174	Liquid Carbonic Corp.	222	16	18	15
Holland Furnace Co...	690	2	2	2,500	Donaldson Baking Co.	237			
American Bakeries Co.	630	12	12	16	Motor Haulage Co....	161	70	118	4
Kroger Groc. & Bkg. Co.	125	500	800	75	National Refining Co...	185	41	49	12
Ark. Whole. Groc. Assoc.	564	56		835	Deep Rock Oil Corp...	200	25	25	20
Loose-Wiles Biscuit Co.	610	6	14	4	Jacob Laub Baking Co.	224			10
The Cudahy Packing Co.	600	10	14	300	S. W. Mgmt. Co., Inc...	217		3	50
Imperial Oil, Ltd.....	493	98	97	13	Skelly Oil Co.....	198	14	70	99
The Coca Cola Bott. Co.	582			15	Dorch Baking Co....	200	6	6	9
Drym'n's Lg. Coop. Assn.	542	20	29	225	Gilmore Oil Co.....	200	6	6	192
Humble Oil & Ref'g Co.	401	159	159	724	Nat. Grain Yeast Corp.	200			300

The shippers listed above operate 150,100 trucks, 5,884 tractors, 8,588 trailers and 54,355 cars. It is not a complete list of all fleets with more than 200 vehicles. Survey as of June, 1940 by Automobile Manufacturers Association.

24,271 Fleets Operate 958,492 Trucks

(SOURCE: Commercial Car Journal, figures as of March, 1941)

	Fleets of 8 or More Fleets	Trucks
Bakeries, Candies, Florists	1,485	62,342
Bottlers, Breweries	930	24,046
Coal Dealers, Mineral Mines	1,041	18,297
Contractors, Builders	2,457	50,775
Dairy Products, Milk, Ice Cream	1,485	62,553
Department Stores, Furniture	417	11,020
Flour, Feed, Grains	140	3,433
Government, State, County, Municipal	2,060	239,902
Ice Dealers, Manufacturers	575	15,011
Laundries, Cleaners, Dyers	1,556	34,766
Manufacturers, Steel Mills	837	15,624
Meats, Fish	670	17,489
Motor Freight, Local, Inter- and Intra-State	5,301	176,313
Newspapers, Publishers	137	4,988
Paints, Chemicals, Drugs	170	3,723
Petroleum Products	1,224	75,045
Public Utilities, Railroads	1,210	79,545
Farmers, Vegetables, Chain Stores	1,517	39,769
Miscellaneous	1,059	23,851
Totals	24,271	958,492

REGISTRATIONS

82% of Trucks Surveyed are Single Units

Number, average weight and percentage of single-unit trucks, tractor-truck-semi-trailer combinations and truck and trailer combinations, recorded at 2,152 loadometer stations in 33 States

(SOURCE: Public Roads Administration)

Type of Vehicle	Number Recorded	Average Weight	Percentage of Type	Percentage of All Trucks and Combinations
Loaded single-unit trucks	983,649	8,998	60.3	
Empty single-unit trucks	647,836	4,904	39.7	
All single-unit trucks	1,631,485		100.0	82.3
Loaded tractor-truck-semi-trailer combinations	226,839	25,097	70.3	
Empty tractor-truck-semi-trailer combinations	95,851	11,728	29.7	
All tractor-truck-semi-trailer combinations	322,690		100.0	16.3
Loaded truck and trailer combinations	20,546	37,658	72.2	
Empty tractor-truck and trailer combinations	7,919	18,025	27.8	
All tractor-truck and trailer combinations	28,465		100.0	1.4
All loaded trucks and combinations	1,231,034	12,442		62.1
All empty trucks and combinations	751,606	5,912		37.9
All trucks and combinations	1,982,640			100.0

U. S. Bus Census by States—1937-1940

SOURCE: "Bus Transportation"

	1937	1938	1939	1940
Alabama	2,879	2,888	2,956	3,306
Arizona	673	717	694	670
Arkansas	1,381	1,415	1,712	2,045
California	4,502	4,689	5,038	5,084
Colorado	1,609	1,764	1,911	1,502
Connecticut	1,633	1,765	1,785	1,837
Delaware	299	315	326	307
Dist. of Col.	649	643	747	753
Florida	1,939	2,025	2,009	1,989
Georgia	2,618	3,094	3,130	3,151
Idaho	418	398	774	734
Illinois	2,564	2,494	2,345	2,329
Indiana	8,131	8,156	8,463	8,151
Iowa	2,644	2,763	2,979	3,173
Kansas	788	777	820	798
Kentucky	1,616	1,616	2,092	2,184
Louisiana	3,074	3,092	3,243	3,250
Maine	390	430	495	826
Maryland	1,255	1,330	1,444	1,448
Massachusetts	4,259	4,287	4,525	4,460
Michigan	2,838	2,972	3,288	3,989
Minnesota	2,447	1,977	2,903	2,920
Mississippi	4,452	4,920	4,807	4,927
Missouri	2,989	3,517	3,541	3,637
Montana	621	614	607	554
Nebraska	689	701	630	751
Nevada	276	274	271	276
New Hampshire	319	332	821	908
New Jersey	7,310	6,181	6,794	6,621
New Mexico	1,093	1,077	1,112	1,112
New York	13,841	14,367	15,079	15,177
North Carolina	4,507	4,731	4,905	5,094
North Dakota	669	683	703	664
Ohio	9,660	10,248	9,286	9,066
Oklahoma	3,018	3,022	3,150	2,940
Oregon	991	1,402	1,503	1,411
Pennsylvania	5,819	6,054	8,300	8,311
Rhode Island	534	471	480	422
South Carolina	1,600	1,624	1,665	1,838
South Dakota	473	466	477	455
Tennessee	1,981	2,431	2,515	2,660
Texas	6,663	7,787	7,793	7,993
Utah	651	641	711	640
Vermont	385	362	349	303
Virginia	2,637	2,829	3,167	2,959
Washington	2,889	2,594	2,528	2,551
West Virginia	1,520	1,663	1,732	1,726
Wisconsin	2,516	2,521	2,640	2,775
Wyoming	872	883	986	710
U. S. Total	127,581	132,002	140,231	141,387*

*Total by states exceeds net U. S. total of 141,300 buses because some revenue buses are also operated as school buses and hence duplication results in count by states.

1940 figures do not include 2,450 sightseeing and charter hire buses.

Average Annual School Bus Service Costs \$19.17 Per Pupil

The annual service costs of school bus transportation of 44,250 consolidated schools in the United States average \$19.17 per pupil. Source: "Bus Transportation".

93,306 Buses Serve 44,249 Schools

(SOURCE: "Bus Transportation" as of December 31, 1940)

	No. of Schools Using Buses	No. of Buses in School Operation	Miles of Route One-Way	Children Carried Daily	Cost of Service Annually
B. T. Census Total.....	44,249	*93,308	1,365,030	3,967,411	\$76,052,788
I—NEW ENGLAND					
1. Connecticut.....	540	790	8,460	38,663	1,092,218
2. Maine.....	2,613	645	6,450	28,986	793,722
3. Massachusetts.....	490	1,600	6,700	53,000	1,450,000
4. New Hampshire.....	238	777	3,000	13,376	543,170
5. Rhode Island.....	30	150	1,475	4,600	140,000
6. Vermont.....	150	175	1,750	5,400	224,000
II—CENTRAL ATLANTIC					
7. Delaware.....	69	241	2,530	9,750	256,938
8. District of Columbia.....	4	12	76	131	16,000
9. Maryland.....	601	954	12,452	62,399	1,232,241
10. New Jersey.....	468	1,561	16,000	92,712	2,157,445
11. New York.....	4,779	8,121	68,090	161,287	6,500,000
12. Pennsylvania.....	1,370	4,600	55,000	185,000	4,300,000
III—SOUTHEAST					
13. Alabama.....	1,379	2,879	50,670	209,308	1,936,601
14. Florida.....	781	1,365	14,237	85,288	1,491,852
15. Georgia.....	1,600	2,711	53,054	173,931	2,049,708
16. North Carolina.....	1,250	4,451	85,158	335,623	2,294,333
17. South Carolina.....	800	1,670	29,150	78,272	1,094,093
18. Virginia.....	3,000	2,082	42,714	153,583	1,843,664
IV—MID-WEST					
19. Illinois.....	154	327	13,302	11,002	339,391
20. Indiana.....	1,000	7,131	82,846	223,264	4,977,097
21. Iowa.....	478	2,802	24,635	58,820	1,706,829
22. Kentucky.....	980	1,500	30,000	100,000	1,125,000
23. Michigan.....	500	1,322	10,966	57,600	1,280,000
24. Ohio.....	1,470	7,082	99,782	299,225	6,812,418
25. West Virginia.....	2,500	1,063	24,044	114,575	1,682,778
26. Wisconsin.....	1,850	2,150	13,300	32,400	983,575
V—GULF SOUTHWEST					
27. Arkansas.....	690	1,831	27,964	103,365	1,103,179
28. Louisiana.....	934	2,676	32,644	129,018	2,353,789
29. Mississippi.....	1,400	4,800	45,000	130,000	2,310,000
30. Missouri.....	718	1,897	50,000	65,000	2,000,000
31. Oklahoma.....	756	2,513	50,731	113,799	2,144,898
32. Tennessee.....	1,985	2,010	38,618	127,541	1,643,718
33. Texas.....	3,200	6,022	72,264	250,000	3,243,770
VI—CENTRAL NORTHWEST					
34. Minnesota.....	412	2,294	25,183	43,010	1,466,511
35. Montana.....	105	400	4,500	7,500	300,000
36. North Dakota.....	350	600	9,000	12,653	481,510
37. South Dakota.....	100	350	3,500	6,500	250,000
VII—WEST MID-CONTINENT					
38. Colorado.....	477	1,126	20,667	21,647	717,017
39. Kansas.....	240	350	7,000	10,311	285,656
40. Nebraska.....	175	300	6,000	7,500	100,000
41. Wyoming.....	187	664	7,997	13,696	574,405
VIII—PACIFIC SOUTHWEST					
42. Arizona.....	300	539	9,154	21,760	520,883
43. California.....	820	2,200	15,000	98,980	2,850,000
44. Nevada.....	79	200	2,123	4,150	130,000
45. New Mexico.....	320	1,003	19,057	25,700	969,971
46. Utah.....	38	436	5,230	31,687	526,363
IX—PACIFIC NORTHWEST					
47. Idaho.....	380	665	10,645	25,000	654,795
48. Oregon.....	459	920	28,955	35,385	1,099,726
49. Washington.....	1,100	1,549	15,850	96,803	2,043,524

REGISTRATIONS

*It is estimated that approximately 6,000 buses used part time in school service are operated mainly in common carrier service and hence cannot strictly be classed as school buses.

Estimates were necessary for states where no 1940 reports were available. This tabulation covers both buses operated under contract for schools by private carriers, and state or school owned buses.

Retail Sales of New Motor Vehicles in U. S.

(Compiled by the Automobile Manufacturers Association)

Passenger Cars

	1932	1933	1934	1935	1936	1937	1938	1939	1940
January.....	76,667	81,937	63,118	180,840	199,419	251,387	126,442	180,692	239,809
February.....	80,420	72,004	116,902	195,320	178,375	218,381	120,254	165,885	236,857
March.....	86,860	86,732	195,117	299,761	338,729	411,589	188,325	276,364	338,153
April.....	128,463	130,399	232,118	333,319	393,435	390,744	193,392	265,992	353,423
May.....	139,634	168,512	216,177	285,401	397,290	410,348	187,526	276,719	330,521
June.....	157,148	193,180	237,171	295,703	389,215	367,456	156,029	254,604	380,871
July.....	90,525	178,121	214,888	261,717	340,308	349,387	153,426	229,873	298,683
August.....	95,564	182,595	184,824	236,415	266,783	312,481	123,711	166,172	177,679
September....	81,905	152,186	147,233	141,985	199,614	194,703	90,629	139,222	158,083
October.....	59,580	131,241	136,588	145,676	157,586	213,983	134,984	236,584	326,097
November.....	45,412	95,542	106,971	265,090	295,857	213,762	241,009	257,398	334,536
December....	53,542	53,146	77,070	254,555	357,247	173,610	241,623	274,233	319,187
Year.....	1,095,720	1,525,595	1,927,847	2,866,782	3,513,858	3,507,781	1,957,390	2,723,718	3,463,599

SALES

Commercial Cars and Trucks

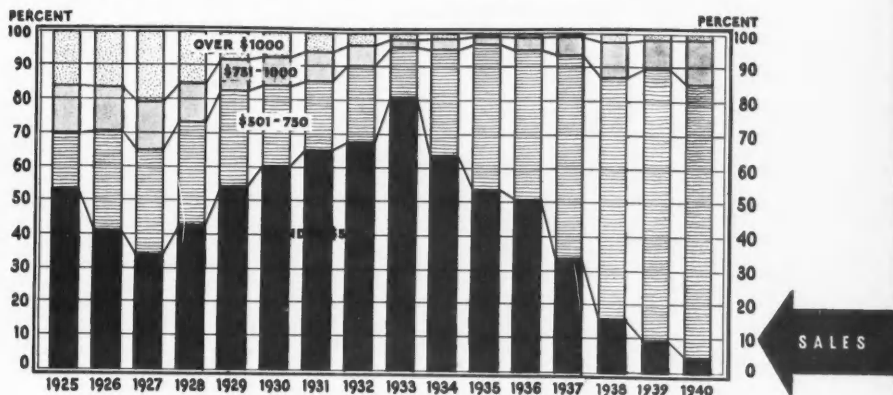
	1932	1933	1934	1935	1936	1937	1938	1939	1940
January.....	12,925	12,336	27,015	41,058	46,274	46,066	32,391	37,186	45,929
February.....	15,088	9,566	26,965	39,891	44,235	47,168	29,782	35,781	47,156
March.....	16,883	11,176	37,493	47,143	62,121	73,513	39,710	54,516	60,505
April.....	18,856	18,600	41,865	53,301	65,951	72,812	35,619	45,498	57,854
May.....	19,568	23,634	40,326	49,104	62,661	66,546	35,471	46,474	55,070
June.....	19,492	33,251	39,504	49,663	62,489	64,759	33,910	47,307	51,054
July.....	13,334	28,876	38,148	49,128	62,129	61,118	36,620	50,959	59,696
August.....	15,405	30,816	45,859	54,800	64,590	63,535	33,924	44,132	46,879
September....	17,906	29,558	38,448	40,460	56,569	53,407	25,776	30,234	37,045
October.....	16,155	27,536	39,889	39,255	33,444	31,617	17,327	41,280	53,652
November.....	10,745	18,469	28,780	45,933	37,213	28,794	30,673	45,806	56,988
December....	11,051	17,276	26,453	42,510	51,498	33,574	36,178	41,397	60,550
Year.....	189,410	261,084	430,745	552,246	649,174	644,928	387,381	520,560	632,385

Total Cars and Trucks

	1932	1933	1934	1935	1936	1937	1938	1939	1940
January.....	89,592	94,273	90,133	191,898	245,693	299,473	158,833	217,878	285,438
February.....	95,508	81,570	143,867	236,211	222,610	265,546	150,036	201,646	284,013
March.....	103,743	97,908	232,610	346,904	400,850	485,102	228,035	330,880	398,658
April.....	147,321	148,999	273,983	386,620	459,386	463,556	229,011	311,490	411,277
May.....	159,202	192,146	256,503	334,505	459,951	476,896	222,997	323,193	385,591
June.....	176,640	226,431	276,675	345,366	451,704	432,215	189,939	301,911	401,925
July.....	103,859	206,997	252,706	310,845	402,437	410,505	190,046	280,832	358,379
August.....	110,969	213,411	230,653	281,215	331,373	375,966	157,635	210,304	224,558
September....	99,811	181,744	185,681	182,445	256,183	246,110	116,405	169,456	186,128
October.....	77,735	156,777	176,477	184,931	181,030	245,580	152,311	277,864	379,749
November.....	56,157	114,001	135,751	311,023	333,070	242,556	271,682	303,204	391,831
December....	64,593	70,422	103,523	297,065	408,745	207,184	277,801	315,630	379,737
Year.....	1,285,130	1,786,679	2,358,592	3,419,028	4,163,032	4,152,709	2,344,731	3,244,278	4,095,984

NOTE—Passenger car figures include taxicabs; truck figures include buses, station wagons, funeral cars and special purpose vehicles.

85% of New Cars Sell Under \$750 Wholesale



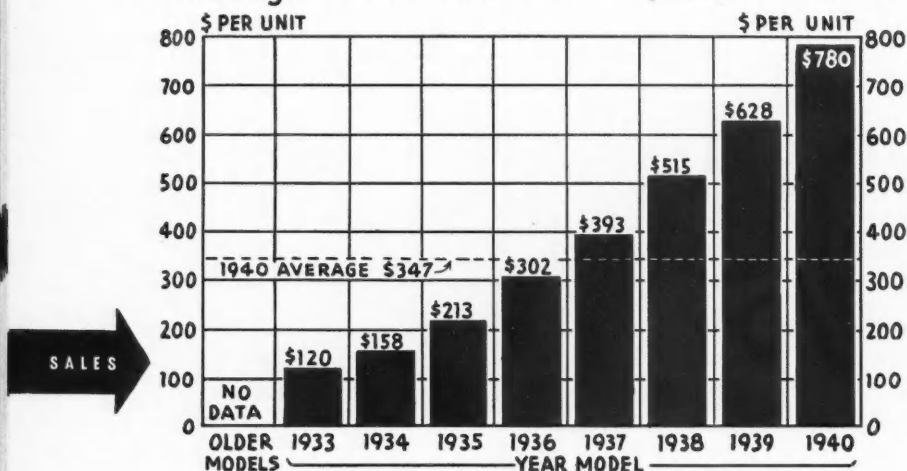
Factory Sales by Wholesale Price Classes United States and Canada

	Under \$500	\$501- 750	\$751- 1000	\$1001- 1500	\$1501- 2000	\$2001- 3000	Over \$3000	Total
1929.....	2,585,414	1,317,116	387,835	347,340	98,086	47,587	11,520	4,794,898
Percent.....	53.9	27.5	8.1	7.3	2.0	1.0	.2	100%
1930.....	1,754,747	680,352	204,450	179,180	55,351	27,266	8,841	2,910,187
Percent.....	60.3	23.4	7.1	6.2	1.9	.9	.2	100%
1931.....	1,328,294	413,929	162,954	80,687	33,846	12,714	5,789	2,038,183
Percent.....	65.2	20.3	8.0	3.9	1.7	.6	.3	100%
1932.....	794,164	260,831	74,610	36,670	8,699	8,679	2,532	1,186,185
Percent.....	67.0	22.0	6.3	3.1	.7	.7	.2	100%
1933.....	1,316,341	237,099	32,610	20,125	10,409	8,725	2,052	1,627,361
Percent.....	80.9	14.6	2.0	1.25	.65	.5	.1	100%
1934.....	1,443,357	715,989	66,223	27,576	8,391	6,879	2,151	2,270,566
Percent.....	63.5	31.6	2.9	1.2	.4	.3	.1	100%
1935.....	1,787,171	1,444,529	110,813	28,736	8,716	5,413	2,428	3,387,806
Percent.....	52.7	42.6	3.3	.9	.27	.16	.07	100%
1936.....	1,919,618	1,677,558	143,269	39,997	11,545	4,326	1,584	3,797,897
Percent.....	50.6	44.2	3.7	1.05	.30	.11	.04	100%
1937.....	1,368,018	2,392,415	280,280	31,226	11,633	4,061	1,302	4,068,935
Percent.....	33.6	58.8	6.4	.8	.28	.09	.03	100%
1938.....	329,898	1,521,404	224,839	42,160	3,661	2,161	663	2,124,746
Percent.....	15.5	71.6	10.6	2.0	.17	.10	.03	100%
1939.....	285,217	2,380,466	253,931	49,033	4,304	1,870	344	2,975,165
Percent.....	9.6	80.0	8.54	1.65	.14	.06	.01	100%

United States Only

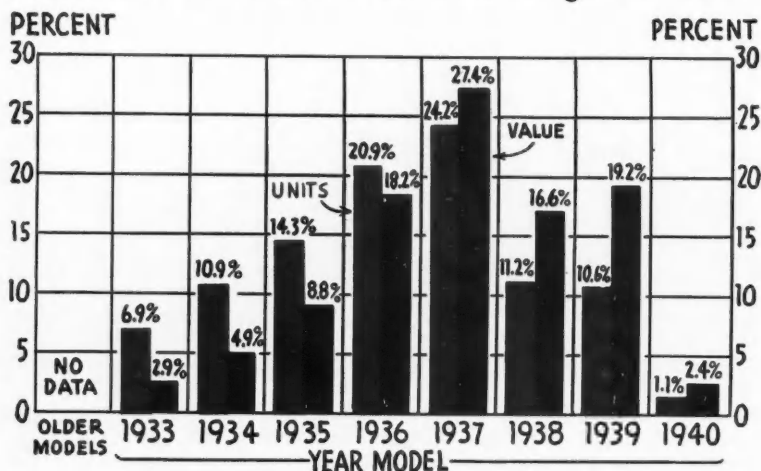
1939.....	265,341	2,328,184	218,986	47,849	4,222	1,870	344	2,866,796
Percent.....	9.3	81.2	7.6	1.67	.15	.07	.01	100%
1940.....	125,198	3,017,536	478,258	61,362	7,547	2,306	121	3,692,328
Percent.....	3.4	81.73	12.95	1.66	.20	.06	...	100%

Average Used Car Price \$347 In 1940



(SOURCE: National Automobile Dealers Association)

Sales of 1937 Model Used Cars Largest In 1940



(SOURCE: National Automobile Dealers Association)

Value of Exports from United States

(SOURCE: Motive Products Division, U. S. Department of Commerce)

	Passenger Cars	Trucks	Cars and Trucks	Parts and Accessories ^①	Rubber Tires and Tubes	Total Value of Exports ^①
1913.....	\$25,673,570	\$1,737,141*	\$27,410,711	\$8,079,338	\$4,509,293	\$39,999,342
1914.....	26,760,388	1,181,611*	27,941,999	6,907,701	3,767,998	38,617,698
1915.....	23,328,532	39,140,682*	62,469,214	19,268,176	13,411,914	95,149,304
1916.....	43,417,474	56,805,548*	100,223,022	26,808,001	17,729,008	144,760,031
1917.....	51,912,746	42,343,502*	94,256,248	36,441,526	16,140,493	146,838,267
1918.....	38,099,304	26,814,982*	64,914,286	38,408,078	15,267,509	118,589,843
1919.....	76,072,811	36,217,095*	112,289,906	47,986,522	30,481,886	190,758,314
1920.....	170,439,714	48,578,717	219,018,431	92,520,863	53,074,015	364,613,329
1921.....	35,097,896	10,887,832	45,985,728	41,728,167	16,313,414	104,027,309
1922.....	53,574,661	9,182,870	62,757,531	44,564,868	20,702,982	128,025,381
1923.....	95,338,707	16,447,662	111,786,369	71,122,609	20,320,708	203,229,686
1924.....	118,279,221	20,497,093	138,776,274	79,611,981	22,417,000	240,805,255
1925.....	190,855,961	39,291,105	230,147,066	98,078,545	30,505,000	358,730,611
1926.....	182,094,181	48,674,301	230,768,482	99,316,776	35,236,432	365,321,690
1927.....	214,275,617	72,029,247	286,304,864	112,619,968	44,579,258	443,504,080
1928.....	269,394,714	93,262,399	362,657,113	156,189,550	40,576,596	559,423,259
1929.....	239,633,163	112,971,107	352,604,270	204,433,451	42,794,388	599,832,109
1930.....	109,990,336	56,957,246	166,947,582	125,022,350	34,936,061	326,905,993
1931.....	53,047,943	26,302,030	79,349,973	79,304,435	22,907,795	181,562,203
1932.....	25,614,066	12,214,163	37,828,769	45,014,472	10,993,358	93,436,599
1933.....	33,945,464	20,691,338	54,636,802	41,646,879	11,377,630	107,661,311
1934.....	80,603,633	45,125,359	125,728,992	72,894,468	13,647,144	212,270,604
1935.....	99,342,411	51,985,938	151,328,349	89,354,087	13,206,125	253,888,561
1936.....	107,483,285	56,683,828	164,167,113	91,329,409	13,938,409	269,434,931
1937.....	140,638,203	102,957,996	243,596,199	122,364,286	17,914,078	383,874,563
1938.....	104,628,982	74,490,036	179,119,018	107,613,293	15,871,265	302,603,576
1939.....	89,172,300	71,422,015	160,594,315	109,321,470	21,883,803	291,799,588
1940.....	63,766,211	91,324,669	155,090,880	117,173,166	27,520,815	299,784,861

SALES

U. S. Factory Sales to Domestic and Foreign Markets

"Domestic market" represents sales to distributors and dealers in the United States, and "foreign market" includes exports from U. S. factories plus number of vehicles assembled abroad from parts produced in U. S. plants. Canadian production is not included.

(SOURCE: U. S. Department of Commerce, Bureau of the Census)

PASSENGER CARS				MOTOR TRUCKS			TOTAL MOTOR VEHICLES		
	Total	Domestic Market	Foreign Market	Total	Domestic Market	Foreign Market	Total	Domestic Market	Foreign Market
1921..	1,468,067	1,417,017	51,050	148,052	135,483	12,569	1,616,119	1,552,500	63,619
1922..	2,274,185	2,169,185	105,000	269,991	247,593	22,398	2,544,176	2,416,778	127,398
1923..	3,624,717	3,449,658	175,059	409,285	349,077	60,218	4,034,012	3,798,735	235,277
1924..	3,185,881	2,968,711	217,170	416,659	340,555	76,104	3,602,540	3,309,266	293,274
1925..	3,735,171	3,419,072	316,099	530,659	418,064	112,595	4,265,830	3,837,136	428,694
1926..	3,783,987	3,494,791	289,196	516,947	413,080	103,867	4,300,934	3,907,871	393,063
1927..	2,936,533	2,604,491	332,042	464,793	330,455	134,338	3,401,326	2,934,946	466,380
1928..	3,815,417	3,396,916	418,901	543,342	379,530	163,812	4,358,759	3,776,046	582,713
1929..	4,587,400	4,136,305	451,095	771,020	488,353	282,667	5,358,420	4,624,658	733,762
1930..	2,784,745	2,536,981	247,764	571,241	413,290	157,951	3,358,986	2,950,271	408,715
1931..	1,973,090	1,838,786	134,304	416,648	309,029	107,619	2,389,738	2,147,815	241,923
1932..	1,135,491	1,062,376	73,115	235,187	187,837	47,350	1,370,678	1,250,213	120,465
1933..	1,573,512	1,475,357	98,155	346,545	268,117	78,428	1,920,057	1,743,474	176,583
1934..	2,177,919	1,993,763	184,156	575,192	448,826	126,366	2,753,111	2,442,589	310,522
1935..	3,252,244	3,041,877	210,367	694,690	570,216	124,474	3,946,934	3,612,093	334,841
1936..	3,669,528	3,458,051	211,477	784,587	649,997	134,590	4,454,115	4,108,048	346,067
1937..	3,915,889	3,643,386	272,503	893,085	689,674	203,411	4,808,974	4,333,060	475,914
1938..	2,000,985	1,810,938	190,047	488,100	352,207	135,893	2,489,085	2,163,145	325,940
1939..	2,866,796	2,702,181	164,615	710,496	558,973	151,523	3,577,292	3,261,154	316,138
1940..	3,692,328	3,584,293	108,035	777,026	658,638	121,388	4,469,354	4,239,931	229,423

*Truck shipments to Non-Contiguous Territories, if any, were not segregated from passenger cars.

①—Includes value of "parts for assembly" exported and shipments to non-contiguous territories.

1940 Exports of Motor Vehicles from U.S. Plants

(SOURCE: U. S. Department of Commerce, Bureau of the Census)

	PASSENGER CARS		MOTOR TRUCKS		TOTAL	
	Units Exported	% of U. S. Output	Units Exported	% of U. S. Output	Units Exported	% of U. S. Output
1913.....	24,293	5.3	993	4.2	25,286	5.2
1914.....	28,306	5.2	784	3.1	29,090	5.1
1915.....	23,880	2.7	13,996	18.9	37,876	3.9
1916.....	56,234	3.7	21,265	23.1	77,499	4.8
1917.....	64,808	3.7	15,977	12.5	80,785	4.3
1918.....	36,936	3.9	10,308	4.5	47,244	4.0
1919.....	67,145	4.1	15,585	6.9	82,730	4.4
1920.....	146,997	7.7	30,112	9.4	177,109	8.0
1921*.....	51,050	3.5	12,569	8.5	63,619	3.9
1922.....	105,000	4.6	22,398	8.3	127,398	5.0
1923.....	175,059	4.8	60,218	14.7	235,277	5.8
1924.....	217,170	6.8	76,104	18.3	293,274	8.1
1925.....	316,099	8.5	112,595	21.2	428,694	10.0
1926.....	289,196	7.6	103,867	20.1	393,063	9.1
1927.....	332,042	11.3	134,338	28.9	466,380	13.7
1928.....	418,901	11.0	163,812	30.1	582,713	13.4
1929.....	451,095	9.8	282,667	36.7	733,762	13.7
1930.....	247,764	8.9	157,951	27.7	405,715	12.1
1931.....	134,304	6.8	107,619	25.8	241,923	10.1
1932.....	73,115	6.4	47,350	20.1	120,465	8.8
1933.....	98,155	6.2	78,428	22.6	176,583	9.2
1934.....	184,156	8.5	126,366	22.0	310,522	11.3
1935.....	210,367	6.5	124,474	17.9	334,841	8.5
1936.....	211,477	5.8	134,590	17.2	346,067	7.8
1937.....	272,503	7.0	203,411	22.8	475,914	9.9
1938.....	190,156	9.5	135,786	27.8	325,942	13.1
1939.....	164,615	5.7	151,523	21.3	316,138	8.8
1940.....	108,035	2.9	121,388	15.6	229,423	5.1

NOTE—Includes shipments to non-contiguous territories from 1920 to date and electric vehicles from 1922 to 1930.

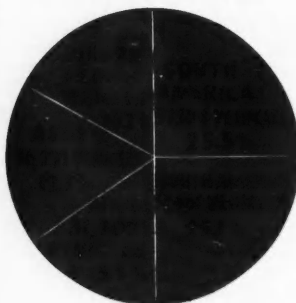
*Includes number of motor vehicles assembled abroad from parts produced in United States, from 1921 to date.

U. S. Exports of Motor Vehicles by Continents

(SOURCE: Motive Products Department; U. S. Department of Commerce)

Number of Units Exported

Value of Units Exported



Continent	Value	Percent of Total Value
North America.....	\$40,424,540	26.0%
South America.....	33,179,843	21.4
Europe.....	41,644,132	26.9
Asia.....	21,064,415	13.6
Africa.....	18,777,950	12.1
Total.....	\$155,090,880	100.0

Replacements are Two-Thirds of Tire Market

(SOURCE: The Rubber Manufacturers Association)

PNEUMATIC CASINGS-UNITS	Original Equipment	Replacement	Export	Total
1936.....	21,446,114	30,866,586	1,072,799	53,385,499
1937.....	22,352,601	29,886,326	1,246,461	53,485,388
1938.....	10,716,130	30,565,008	1,048,934	42,330,072
1939.....	18,207,556	35,022,034	1,279,185	57,508,775
1940.....	22,261,723	35,724,034	1,169,569	59,155,326
INNER TUBES-UNITS				
1936.....	18,190,630	31,997,906	1,001,778	51,190,314
1940.....	22,181,862	29,134,442	990,463	52,306,767

Wholesale Sales Value of Motor Tire Shipments in U.S.

	Pneumatic Casings	Inner Tubes	Solids and Cushions	Auto Tire Sundries and Fabrics	Total
1929.....	\$592,172,000	\$84,623,000	\$17,554,000	\$28,058,000	\$722,405,000
1930.....	439,098,000	63,364,000	9,535,000	20,288,000	532,285,000
1931.....	340,979,000	49,876,000	5,520,000	15,191,000	411,566,000
1932.....	251,447,000	31,884,000	3,270,000	10,955,000	297,556,000
1933.....	256,192,000	35,271,000	2,903,000	12,389,000	306,755,000
1934.....	269,987,000	36,804,000	1,941,000	15,680,000	324,382,000
1935.....	324,937,000	44,715,000	1,502,000	16,321,000	387,475,000
1936.....	368,353,000	50,524,000	1,386,000	15,083,000	435,316,000
1937.....	419,689,000	54,355,000	961,000	17,769,000	492,770,000
1938.....	328,866,000	44,400,000	514,000	15,201,000	389,981,000
1939.....	448,154,000	55,923,000	484,000	19,651,000	524,212,000
1940.....	436,363,000	53,767,000	479,000	18,123,000	508,732,000

The above figures representing 100% of the tire industry are estimates made by the Automobile Manufacturers Association based on actual reports to The Rubber Manufacturers Association, Inc. from companies representing 98% of the industry's sales for 1929 to 1934, 87% for 1935, 80% for 1936 to 1938, and 75% for 1939 and 1940.

1940 Parts, Accessories Sales Increase 18% Over 1939

(Estimates based on Federal Excise Tax Receipts)

	Wholesale Value		Wholesale Value
1933.....	\$227,183,250	1937.....	\$474,599,246
1934.....	299,576,750	1938.....	354,365,950
1935.....	359,146,550	1939.....	456,673,191
1936.....	446,053,700	1940.....	541,268,850

NOTE—For year to year comparisons, probably the most comprehensive and accurate measure of the trend in the domestic market sales of repair parts and accessories is obtainable from the Federal excise tax collections. The wholesale value of parts and accessories taxable has been estimated by dividing the tax rate into the aggregate annual collections for years ending January 31st.

The Federal excise tax does not apply on parts and accessories exported, direct sales to governments, sales of garage and service equipment and items which are used for a variety of purposes other than automotive, such as bolts, nuts, lacquers, paints, varnish, cloth, leather, etc. used in repairs.

Capital Invested in Motor Vehicle Manufacturing*

Year	Cars	Trucks	Total
1929.....	1,518,714,814	437,972,847	1,956,687,661
1930.....	1,442,275,653	436,332,590	1,880,906,233
1931.....	1,215,200,000	380,600,000	1,595,800,000
1932.....	1,118,600,000	371,300,000	1,489,900,000
1933.....	1,012,548,000	336,418,000	1,348,966,000
1934.....	955,599,000	322,918,000	1,278,517,000
1935.....	969,356,000	304,469,000	1,273,825,000
1936.....	1,006,108,000	338,435,000	1,344,543,000
1937.....	1,003,969,000	365,762,000	1,369,631,000
1938.....	905,881,000	372,444,000	1,278,325,000
1939.....	920,636,000	382,270,000	1,302,906,000
1940.....	953,815,000	380,938,000	1,334,751,000

*The above figures represent net tangible assets of motor vehicle manufacturing plants located in United States, and do not include parts, accessory, body and tire manufacturers.

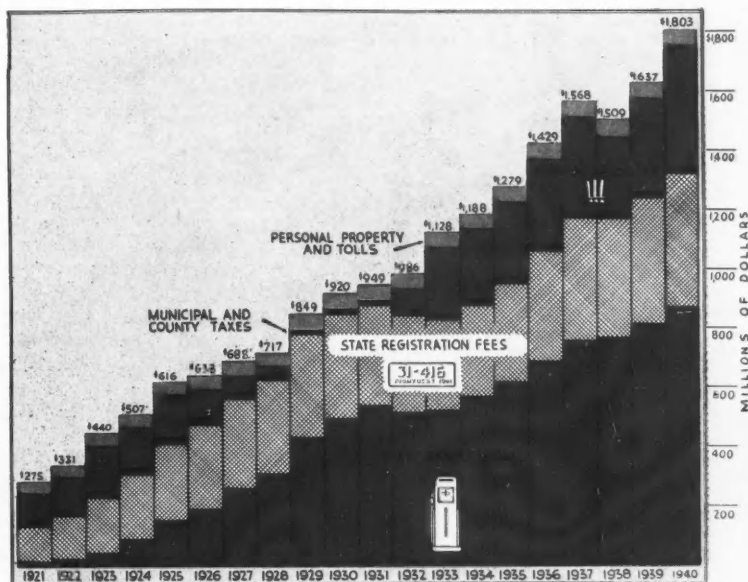
41,790 Passenger Car and Truck Dealers In U.S.

(SOURCE: Chilton Company, as of March 1, 1941)

	Total Car and Truck Dealers	Total Pass. Car Dealers	Total Truck Dealers	Car Dealer Service Stations	Independent Repair Shops	Total Retail Outlets (Duplication Eliminated)	No. of Wholesalers	No. of Truck Fleets*
Alabama.....	407	393	228	372	283	768	84	221
Arizona.....	184	173	93	176	168	341	32	81
Arkansas.....	393	374	249	368	319	714	87	122
California.....	2,043	1,934	1,258	1,743	5,311	7,675	525	1,584
Colorado.....	489	452	309	447	486	1,087	73	259
Connecticut.....	623	597	345	593	694	1,465	103	508
Delaware.....	74	68	44	69	102	172	14	87
Florida.....	506	474	281	457	495	1,095	110	395
Georgia.....	578	559	371	531	290	1,001	103	332
Idaho.....	361	347	238	340	181	572	32	48
Illinois.....	2,575	2,477	1,526	2,356	2,929	5,652	414	1,810
Indiana.....	1,262	1,230	692	1,169	1,253	2,450	208	773
Iowa.....	1,544	1,433	1,018	1,328	1,288	2,997	169	374
Kansas.....	1,099	1,058	684	1,015	932	1,972	137	276
Kentucky.....	622	600	423	594	456	1,164	105	257
Louisiana.....	395	382	249	359	282	721	75	416
Maine.....	411	397	241	373	466	858	49	119
Maryland.....	490	479	208	468	520	1,031	84	409
Massachusetts.....	1,154	1,124	483	1,087	1,238	2,525	234	1,244
Michigan.....	1,863	1,775	1,189	1,742	1,851	4,013	245	1,248
Minnesota.....	1,490	1,438	787	1,376	1,767	3,333	127	486
Mississippi.....	431	400	276	409	192	628	70	124
Missouri.....	1,099	1,055	738	1,033	1,468	2,659	208	711
Montana.....	415	380	288	381	269	694	47	103
Nebraska.....	745	713	537	692	805	1,631	96	190
Nevada.....	115	111	92	109	94	225	10	27
New Hampshire.....	246	233	157	271	271	529	25	75
New Jersey.....	1,102	1,045	528	1,009	1,837	3,043	192	1,135
New Mexico.....	189	178	119	153	140	359	32	41
New York.....	2,938	2,756	1,713	2,689	5,230	8,626	541	2,479
North Carolina.....	689	666	361	668	497	1,278	130	325
North Dakota.....	551	530	347	530	482	1,087	30	50
Ohio.....	2,344	2,280	1,269	2,114	2,448	4,968	379	1,563
Oklahoma.....	744	685	513	708	780	1,736	134	289
Oregon.....	477	457	308	437	890	1,490	83	228
Pennsylvania.....	3,188	3,057	1,862	2,976	3,976	7,553	436	2,021
Rhode Island.....	160	156	70	152	229	433	29	223
South Carolina.....	378	363	201	341	232	585	57	191
South Dakota.....	439	415	317	388	335	828	32	53
Tennessee.....	484	465	308	413	391	963	108	348
Texas.....	2,069	1,881	1,349	1,844	2,658	4,806	362	945
Utah.....	204	199	147	181	228	471	42	129
Vermont.....	194	183	151	168	331	538	27	47
Virginia.....	715	696	253	663	667	1,445	86	353
Washington.....	780	731	489	677	1,271	2,167	135	419
West Virginia.....	530	522	317	489	363	931	80	269
Wisconsin.....	1,702	1,619	1,188	1,569	1,520	3,376	144	629
Wyoming.....	220	209	142	189	134	384	24	46
Dist. of Col.....	89	84	36	82	139	257	26	209
Total.....	41,790	39,833	24,992	38,244	49,208	95,296	6,575	24,271

*Number of truck fleets of 8 or more trucks each.

1940 Motor Vehicle Taxes Set New Record



\$1,802,748,000 Motor Taxes in 1940

	State Gross Registration Receipts ^①	State Gasoline Tax (Net) ②	Municipal and County Taxes ③	Federal Excise Taxes ④	Personal Property and Tolls ⑤	Total
1921 ..	\$122,478,654	\$ 5,382,111	\$ 8,969,000	\$101,743,917	\$36,031,000	\$274,604,682
1922 ..	182,047,824	12,703,088	10,218,000	116,579,020	39,782,000	331,329,932
1923 ..	188,970,992	38,566,338	11,638,000	157,704,344	43,362,000	440,241,674
1924 ..	225,492,252	80,442,295	13,101,000	141,215,594	46,899,000	507,150,141
1925 ..	260,619,621	148,358,087	13,684,000	145,295,784	48,316,000	616,273,492
1926 ..	288,282,352	187,603,231	14,655,000	96,386,767	51,345,000	638,272,350
1927 ..	301,061,132	258,638,813	15,343,000	60,473,708	52,657,000	688,373,653
1928 ..	322,630,025	304,871,766	15,990,000	20,386,176	53,010,000	716,887,967
1929 ..	347,843,543	431,311,519	16,392,000	.....	53,608,000	849,155,062
1930 ..	355,704,860	493,885,117	16,555,000	.....	53,445,000	919,589,977
1931 ..	344,337,654	536,397,458	15,742,000	.....	52,258,000	948,735,112
1932 ..	330,005,109 ^①	513,047,239	15,861,000	75,006,210	52,521,000	986,440,558
1933 ..	310,100,884	518,195,712	16,000,000	229,631,826	54,000,000	1,127,928,422
1934 ..	316,662,000	565,027,000	16,000,000	235,140,802	55,000,000	1,187,829,802
1935 ..	335,375,000	618,851,671	16,000,000	256,097,573	55,000,000	1,279,324,244
1936 ..	374,920,000	686,631,000	16,000,000	295,919,324	56,000,000	1,428,470,324
1937 ..	415,829,000	756,930,000	16,000,000	323,478,737	56,000,000	1,568,237,737
1938 ..	405,246,000	766,853,000	16,000,000	265,125,045	56,000,000	1,508,224,045
1939 ..	430,549,000	816,433,000	16,000,000	317,567,000	56,000,000	1,636,549,000
1940 ..	457,081,000	864,472,000	16,000,000	409,185,000	56,000,000	1,802,748,000
Total						
1921-40	\$6,285,246,902	\$8,602,780,445	\$296,148,000	\$3,246,936,827	\$1,027,234,000	\$19,458,346,174

These are taxes on the motor vehicle owners. Income and property taxes on motor vehicle, body, parts and tire factories, garages, dealers, repair shops, terminals and truck, taxicab and bus operating companies are not included.

①—U.S. Public Roads Administration. ②—Estimated by Automobile Manufacturers Association based on "The Taxation of Motor Vehicles in 1932" by the U.S. Public Roads Administration, and other special surveys.

③—U.S. Bureau of Internal Revenue. Includes only 90% (i.e., motor vehicle portion) of Federal excise tax collections on gasoline and 52% (motor vehicle share) of lubricating oil. From 1921 to 1926 includes excise on for-hire vehicles. ④—Includes special motor carrier taxes from 1932 to date.

Motorists Pay More Than Share of Road Costs

Source: "PUBLIC AIDS TO TRANSPORTATION" (Vol. IV), an Analysis of Highway and Street Costs and Motor Vehicle User Payments by Federal Coordinator of Transportation, 1940.

Year	Estimated Total Motor Vehicle User Payments*	Total Annual Costs of Highways and Streets Assignable to Motor Vehicle Users	Total Annual Costs Less Total Motor Vehicle Tax Payments	Adjusted Excess†
1921	\$128,079,000	\$214,136,000	\$ 86,057,000	\$ 99,082,000
1922	165,714,000	258,383,000	92,669,000	95,194,000
1923	227,723,000	296,332,000	68,609,000	75,084,000
1924	302,094,000	356,608,000	54,514,000	55,514,000
1925	396,906,000	415,880,000	18,974,000	21,034,000
1926	463,041,000	464,431,000	1,390,000	3,772,000
1927	551,356,000	520,247,000	(e) 31,109,000	(e) 27,196,000
1928	616,607,000	587,067,000	(e) 29,540,000	(e) 25,839,000
1929	763,142,000	658,555,000	(e) 104,587,000	(e) 101,065,000
1930	833,915,000	728,175,000	(e) 105,740,000	(e) 106,328,000
1931	864,549,000	736,112,000	(e) 128,437,000	(e) 138,299,000
1932	819,807,000	758,835,000	(e) 60,972,000	(e) 59,352,000
1933	795,706,000	788,604,000	(e) 7,102,000	(e) 10,148,000
1934	895,243,000	807,467,000	(e) 47,776,000	(e) 38,789,000
1935	927,264,000	841,087,000	(e) 86,177,000	(e) 56,443,000
1936	1,035,174,000	942,323,000	(e) 92,851,000	(e) 60,859,000
1937	1,138,386,000	984,326,000	(e) 154,060,000	(e) 110,722,000
Total	\$10,884,706,000	\$10,358,563,000	(e)\$526,138,000	(e)\$385,360,000

(e) Excess of payments over costs.

*These figures do not include Federal excise taxes or certain portions of state registration fees of the nature of property taxes, or tolls on bridges, ferries and tunnels.

†Excluding "legal" diversion of motor vehicle taxes and other adjustments.

PER CENT OF COSTS ASSIGNED TO MOTOR VEHICLES

Years*	State Highways	County and Local Roads	City Streets
1921-32	80.0%	24.0%	21.1%
1933-37	83.0%	34.0%	30.0%

*The increase in the percentage in costs assignable to highway users from the 1921-32 period to the 1933-37 period is based on the theory that improvements in the later period were influenced more by motor vehicle use than in the earlier period.

Trucks Subject to More Regulations Than Railroads

A statement made by the Interstate Commerce Commission in its Fifty-Second Annual Report, page eight, reads as follows:

"These two acts (The Motor Carrier Act, 1935, and the Civil Aeronautics Act, 1938) provide for the motor carriers and the air carriers, respectively, a system of regulation which is, if anything, more comprehensive than that which has been provided for the railroads."

Motorists Pay 1 Out of 8 Tax Dollars in U. S.



SOURCE: Estimate of \$14,144,000,000 in all federal, state and local 1940 taxes from the National Industrial Conference Board. Motor vehicle user taxes of \$1,802,748,000 from U. S. Public Roads Administration, U. S. Treasury Department, and other sources.

Automotive Products Pay 78% of All Federal Manufacturers' Excise Taxes

(SOURCE: U. S. Bureau of Internal Revenue)

	Motor Vehicles	Parts and Accessories	Rubber Tires and Tubes	Gasoline (90% of Total)	Lubricating Oil (Auto Share)	Total	Percent of all Manu- facturers' Excises
1932..	\$4,941,418	\$1,900,111	\$7,545,071	\$56,555,844	\$4,063,766	\$75,006,210	....
1933..	25,522,713	4,443,071	23,836,119	163,013,389	12,816,534	229,631,826	68.3
1934..	36,794,723	5,886,002	24,704,077	153,098,342	14,657,658	235,140,802	71.2
1935..	48,936,723	7,019,009	28,102,446	155,036,233	17,003,162	256,097,573	69.1
1936..	64,520,269	8,747,945	38,241,552	167,887,796	16,521,762	295,919,324	72.8
1937..	73,533,538	9,619,926	40,088,004	182,722,842	17,514,427	323,478,737	70.4
1938..	34,635,422	7,067,611	26,771,719	180,792,717	15,857,576	265,125,045	70.7
1939..	58,208,457	8,956,584	41,131,327	193,695,592	15,574,646	317,566,606	75.3
1940..	80,560,407	12,147,151	45,091,093	253,488,385	17,898,427	409,185,463	77.6

State Motor-Vehicle Receipts

(Compiled for Calendar Year from Reports of States and Territories)

ALL COLUMNS IN THOUSANDS IN DOLLARS	REGISTRATION FEES ①						
	MOTOR VEHICLES			OTHER VEHICLES			
	Total State Fees & Receipts	Total Cars and Trucks	Pass. Cars	Motor Trucks	Trailers	Motor- cycles	Total All Vehicles
Alabama.....	4,548	4,244	410	460	92	2	4,244
Arizona.....	1,225	870	1,914	1,015	176	2	964
Arkansas.....	3,399	2,929	1,689	4,747	1,188	79	3,107
California②.....	27,914	24,498	19,751	4,747	39	2	25,785
Colorado.....	2,797	2,170	1,689	⑤481	23	6	2,211
Connecticut.....	7,385	4,762	3,163	1,999	316	44	4,791
Delaware.....	1,282	899	583	316	44	1	944
Florida.....	8,002	6,777	4,718	2,089	389	9	7,145
Georgia.....	2,768	1,747	1,193	554	246	2	1,985
Idaho.....	1,401	687	535	74	1,262	2	1,268
Illinois.....	24,760	22,402	15,831	6,771	235	19	22,686
Indiana.....	10,896	8,373	6,582	1,791	381	10	8,764
Iowa.....	12,987	12,354	9,208	3,146	212	11	12,577
Kansas.....	4,012	3,555	2,676	879	69	5	3,629
Kentucky.....	5,509	3,228	1,936	1,292	⑥	3	3,231
Louisiana.....	5,392	4,635	3,342	1,293	701	6	5,342
Maine.....	4,162	3,151	2,262	⑦889	⑧29	4	3,184
Maryland.....	4,686	4,080	3,384	666	160	4	4,214
Massachusetts.....	7,319	4,488	3,001	1,487	21	2	4,511
Michigan.....	24,115	20,001	⑨14,213	5,788	1,280	18	21,309
Minnesota.....	10,305	9,416	7,335	2,081	373	8	9,797
Mississippi.....	3,009	2,951	.....	.....	.....	.....	2,951
Missouri.....	10,780	9,159	7,645	1,514	177	13	9,349
Montana⑩.....	1,721	1,307	937	370	27	1	1,338
Nebraska.....	2,639	2,311	1,326	968	62	2	2,375
Nevada.....	313	285	177	108	7	1	283
New Hampshire.....	3,082	2,529	.....	.....	.....	4	2,533
New Jersey.....	22,562	15,414	11,117	4,297	384	10	15,808
New Mexico.....	1,994	1,643	1,052	591	56	1	1,700
New York.....	55,944	46,316	33,977	12,339	736	47	47,099
North Carolina.....	8,174	7,316	4,749	2,567	450	7	7,773
North Dakota.....	1,661	1,524	1,179	345	5	1	1,530
Ohio.....	30,376	24,338	15,831	8,507	1,451	44	25,833
Oklahoma.....	6,435	4,333	2,819	1,514	648	6	4,987
Oregon.....	3,446	2,952	1,669	⑪1,283	⑫	5	2,957
Pennsylvania.....	38,891	30,295	21,145	9,150	578	33	30,906
Rhode Island.....	3,218	2,509	1,966	543	8	3	2,520
South Carolina.....	2,104	1,613	920	693	182	1	1,796
South Dakota.....	1,794	1,691	1,438	253	41	1	1,733
Tennessee.....	5,330	4,969	.....	.....	.....	.....	4,969
Texas.....	22,422	20,542	13,412	7,130	627	21	21,190
Utah.....	1,227	1,071	860	⑬511	⑭	1	1,072
Vermont.....	2,625	2,189	1,542	⑮647	42	3	2,234
Virginia.....	7,159	6,232	4,711	1,521	170	7	6,409
Washington.....	3,728	2,732	1,495	1,237	310	7	3,049
West Virginia.....	6,529	5,018	3,910	1,108	71	6	5,095
Wisconsin.....	13,075	12,450	9,907	2,543	288	16	12,754
Wyoming.....	903	544	324	220	46	1	591
Dist. of Columbia.....	1,751	1,257	796	461	22	3	1,282
Partial Totals⑯.....	439,178	361,231	248,252	98,286	12,100	440	373,771
Full Totals.....	439,178	361,231	248,252	98,286	12,100	440	373,771

TAXES

- ①—Receipts for registration periods ending not earlier than November 30 and not later than January 31 are considered calendar year receipts. In those states where the registration period is definitely removed from the calendar year, registration receipts were obtained for the calendar-year period.
- ②—Segregation of registration fees by type of vehicle not available for Alabama, Mississippi, New Hampshire, and Tennessee. Total motor-vehicle registration fees in those states include trailer and motorcycle fees, except in New Hampshire, for which motorcycle fees were reported separately. Dealers license fees in Tennessee are also included with motor-vehicle registration fees.
- ③—Includes special titling taxes—Kentucky, \$1,428,000; Maryland, \$1,335,000; North Dakota, \$22,000; West Virginia, \$820,000. The proceeds of special excise and privilege taxes on new car sales are also entered in this column. Receipts from a 2 per cent tax in Oklahoma and a 3 per cent tax in South Dakota, each imposed as part of a general sales tax, were \$1,413,950 and \$497,718, respectively.
- ④—Includes estimated service charges, totaling \$2,527,000. In many states county or local officers are allowed service charges for issuing registrations, operators licenses, etc. In the majority of cases these charges are included in registration and other fees. The amounts are estimates of service charges collected and retained by local officials and not reported elsewhere in the table.
- ⑤—Registration fees include proceeds of state "Vehicle License Fees", \$13,117,816, imposed in addition to the regular registration fees of \$12,646,756.

Total \$439,178,000 in 1940

f State Authorities By Public Roads Administration) ①

MISCELLANEOUS RECEIPTS

Total	Dealer Licenses	Oper- ators and Chauf- eurs Permits	Certifi- cate of Title Fees③	Fines and Penal- ties	Transfer or Registra- tion Fees	Other Receipts less Unclassified Re- funds④	State
304	3	125	.....	170	.....	6	Alabama
261	6	25	.....	9	.....	127	Arizona
292	73	206	.....	2	.....	2	Arkansas
2,149	81	140	.....	197	1,522	209	California⑤
586	32	176	.....	53	87	62	Colorado
2,594	114	1,874	.....	163	161	282	Connecticut
308	8	107	.....	62	93	9	Delaware
857	25	419	.....	260	.....	152	Florida
773	14	723	.....	.....	10	26	Georgia
133	24	45	.....	49	.....	15	Idaho
2,104	102	567	.....	646	535	215	Illinois
1,832	52	770	.....	386	36	206	Indiana
410	75	189	.....	.....	226	-50	Iowa
383	32	48	.....	87	196	4	Kansas
2,278	25	564	1,428	7	223	31	Kentucky
50	11	105	.....	.....	.....	-66	Louisiana
978	78	533	.....	175	24	66	Maine
2,484	53	326	1,572	392	147	-6	Maryland
2,808	70	2,728	.....	2	.....	8	Massachusetts
2,806	99	1,168	920	.....	356	263	Michigan
508	59	160	.....	140	.....	149	Minnesota
58	3	.....	.....	48	.....	7	Mississippi
1,401	95	390	805	3	383	25	Missouri
386	19	185	64	63	49	6	Montana⑥
464	36	138	177	.....	77	36	Nebraska
20	2	.....	.....	2	15	1	Nevada
519	24	376	.....	67	.....	52	New Hampshire
6,754	78	4,026	695	232	303	1,420	New Jersey
294	10	179	30	1	.....	74	New Mexico
8,845	209	6,464	.....	566	1,227	379	New York
401	36	141	.....	59	.....	-22	North Carolina
131	21	22	.....	85	.....	3	North Dakota
4,543	272	813	610	115	819	1,914	Ohio
1,448	52	496	288	.....	.....	612	Oklahoma
389	26	81	215	30	.....	37	Oregon
7,985	409	3,301	2,301	12	1,671	291	Pennsylvania
698	18	463	.....	.....	95	122	Rhode Island
308	27	214	.....	33	29	5	South Carolina
61	20	.....	32	.....	.....	9	South Dakota
361	⑭	59	.....	156	.....	146	Tennessee
1,232	43	368	387	.....	294	140	Texas
195	20	29	79	1	26	.....	Utah
391	23	299	.....	.....	58	6	Vermont
750	69	97	322	.....	210	52	Virginia
679	15	170	150	48	104	192	Washington
1,434	49	319	990	.....	69	7	West Virginia
321	27	38	7	.....	239	10	Wisconsin
12	8	.....	.....	.....	3	1	Wyoming
469	16	232	88	.....	34	99	Dist. of Columbia
65,407	2,668	29,898	13,053	2,959	9,525	7,304	Partial Totals⑦
							Full Totals



①—Included with truck fees.

②—Fees of 28,018 light trucks included with those of passenger vehicles.

③—Trailers of 1,000 pounds capacity or more prohibited on highways, although permitted in cities under city licenses. Tractor-semitrailer registered as trucks. Light trailers permitted but not registered.

④—Includes fees of commercial full trailers.

⑤—Fees of light trailers and commercial semitrailers only. Fees of commercial full trailers included with those of trucks.

⑥—Taxicab fees included with those of trucks.

⑦—Registration fees are collected by counties, and state does not maintain complete record. Figures given are estimates supplied by state.

⑧—Includes trailer fees.

⑨—Included with registration fees.

⑩—Includes fees of busses and trailers.

⑪—Fees of trucks under 1,500 pounds capacity included with those of passenger cars.

⑫—Totals of columns for which fully classified data were not available for all states.

State Motor Vehicle Fees and Gasoline Taxes

(Figures from United States Public Roads Administration)

In Thousands of Dollars

Gasoline Taxes

Registration Fees Including
Special Motor Carrier Taxes

	1938	1939	1940	Total 1919 to 1940	1938	1939	1940
Alabama.....	\$13,523	\$14,415	\$15,470	\$143,862	\$4,515	\$5,199	\$4,876
Arizona.....	4,243	4,445	4,767	48,598	1,242	1,321	1,410
Arkansas.....	10,004	10,647	11,312	117,776	2,909	3,143	3,402
California.....	47,101	49,795	51,960	594,594	26,665	27,678	31,069
Colorado.....	7,465	7,751	8,291	94,764	3,138	3,607	3,581
Connecticut...	9,192	9,910	11,032	95,221	6,864	7,012	7,705
Delaware.....	2,069	2,143	2,322	20,944	1,216	1,313	1,252
Dist. of Col....	2,509	2,784	3,222	31,546	2,361	2,064	1,999
Florida.....	22,801	24,323	26,929	267,772	6,707	7,433	8,363
Georgia.....	19,633	21,054	22,809	223,726	2,048	2,706	2,864
Idaho.....	4,088	4,467	4,822	45,286	2,460	1,459	1,465
Illinois.....	36,481	39,000	41,360	377,142	21,591	24,352	24,760
Indiana.....	22,259	23,825	25,494	281,157	10,402	11,223	12,068
Iowa.....	13,233	13,971	14,592	163,155	12,334	13,182	13,399
Kansas.....	10,017	10,023	10,402	124,957	4,990	5,676	5,429
Kentucky.....	12,528	13,834	14,713	149,840	4,929	5,253	5,866
Louisiana.....	16,543	17,381	18,584	153,483	4,903	5,402	5,505
Maine.....	5,558	5,722	5,940	66,891	3,601	3,806	4,181
Maryland.....	9,929	10,638	11,448	118,976	5,069	5,538	6,698
Massachusetts	20,194	20,512	21,401	203,252	6,858	7,168	7,471
Michigan.....	27,724	29,830	32,466	344,562	21,283	22,584	24,616
Minnesota.....	19,380	18,642	18,345	175,717	9,417	9,925	10,348
Mississippi.....	10,181	11,309	11,931	117,690	4,130	2,683	3,174
Missouri.....	11,502	12,096	13,301	145,014	9,931	11,020	11,616
Montana.....	4,452	4,800	5,068	51,460	1,588	1,695	1,781
Nebraska.....	11,026	11,481	11,742	128,985	2,489	2,711	2,876
Nevada.....	1,201	1,336	1,485	13,660	458	509	577
New Hampshire	3,297	3,508	3,616	40,339	2,714	2,965	3,055
New Jersey.....	22,294	23,006	24,226	229,365	20,278	21,412	22,662
New Mexico...	4,066	4,295	4,676	43,345	1,820	2,102	2,218
New York.....	66,132	69,693	73,055	590,428	47,124	48,432	55,980
No. Carolina...	23,300	24,532	26,274	260,056	7,464	8,528	8,571
No. Dakota...	2,254	2,648	3,351	33,286	1,540	1,655	1,703
Ohio.....	45,982	50,466	50,789	559,776	27,673	29,147	30,974
Oklahoma.....	13,905	14,206	14,771	177,343	7,243	7,548	6,639
Oregon.....	9,846	10,591	11,359	116,084	3,991	4,688	4,703
Pennsylvania...	51,914	59,584	62,487	595,589	34,526	36,571	38,896
Rhode Island...	3,492	4,027	3,941	32,767	2,788	2,940	3,227
So. Carolina...	11,254	12,297	13,622	131,587	1,863	2,171	2,372
So. Dakota...	4,048	3,956	4,453	56,778	2,460	2,618	2,227
Tennessee.....	18,276	18,756	21,112	198,862	4,571	5,627	5,381
Texas.....	42,720	45,189	47,518	467,630	20,371	21,309	22,545
Utah.....	3,522	3,735	4,055	40,446	1,106	1,176	1,227
Vermont.....	2,530	2,679	2,781	29,260	2,365	2,490	2,625
Virginia.....	16,620	17,831	19,404	194,544	6,387	7,177	7,522
Washington...	15,421	15,994	17,172	168,802	3,451	4,755	3,902
West Virginia...	9,386	10,409	10,680	98,052	5,577	6,077	6,649
Wisconsin.....	19,253	20,271	21,150	213,335	15,015	14,629	14,767
Wyoming.....	2,505	2,622	2,772	26,584	821	870	895
Total.....	\$766,853	\$816,433	\$864,472	\$8,604,288	\$405,246	\$430,549	\$457,091

1940 Automobile Sales Taxes \$105 Million

	New Cars	New Trucks	Used Motor Vehicles	Parts and Accessories	Tires and Tubes	Lubricating Oil	Total
Ala....	\$170,369	\$66,385	\$147,762	\$280,648	\$84,862	\$①	\$750,026
Ariz...	222,143	64,877	165,372	117,997	35,680	42,278	648,347
Ark....	408,095	221,285	393,672	214,884	64,976	75,462	1,378,374
Calif...	7,639,722	1,110,927	5,099,238	3,536,651	1,069,405	1,130,400	19,586,343
Colo...	525,139	131,584	407,712	272,258	82,325	90,180	1,509,198
Ill....	6,688,836	870,099	4,951,602	2,494,167	754,181	912,482	16,671,367
Ind....	1,017,907	159,950	780,324	414,071	125,206	141,447	2,638,905
Iowa...	1,206,040	275,248	952,884	668,738	202,212	210,346	3,515,468
Kan...	869,519	200,030	676,956	492,555	148,938	152,018	2,540,016
La.....	358,647	239,228	284,208	155,479	47,014	52,512	1,137,088
N. Orl.	83,681	13,393	60,408	68,335	9,697	10,492	246,006
Mich..	6,045,982	618,822	4,469,724	1,990,381	601,847	710,558	14,437,314
Miss...	252,492	349,085	224,106	106,765	32,283	85,482	1,050,213
Mo....	1,773,288	390,868	1,399,224	769,143	232,572	282,542	4,847,637
N. M..	49,141	11,214	42,474	103,924	31,424	41,071	279,248
N.Y.C.	971,939	142,880	722,106	816,694	246,950	279,615	3,180,184
N. C...	1,580,198	447,810	1,287,180	762,377	230,526	280,900	4,588,991
N. D...	233,072	78,452	193,776	153,991	46,563	41,695	747,549
Ohio..	6,253,831	762,663	4,679,064	2,420,284	731,841	846,608	15,694,291
Okla..	864,161	236,570	689,400	475,234	143,700	163,634	2,572,699
S. D...	347,854	105,786	282,654	248,442	75,124	72,970	1,132,830
Utah...	248,197	67,348	189,408	119,350	36,089	43,575	703,967
Wash.	1,061,875	239,327	753,341	541,641	163,780	170,339	2,930,303
W. Va.	694,352	187,005	583,530	324,423	98,098	122,029	2,009,437
Wyo...	147,570	50,732	122,484	72,530	21,931	26,421	441,668
Total	\$39,714,050	\$7,041,568	\$29,558,609	\$17,620,962	\$5,317,224	\$5,985,056	\$105,237,469

TAXES

The above estimates were not furnished by the states, but indicate the probable revenue collected by each state having retail sales taxes, by applying its rate of tax to the estimated retail volume of each class of sales. The latter for "New Cars" and "New Trucks" was obtained by multiplying each state's new car and truck registration by an estimated average unit value. There were assumed to have been twice as many used vehicle sales.

For "Parts and Accessories," the country's wholesale volume, based on the Federal Excise Tax revenue, was given an estimated mark-up for the retail value and prorated to each state in the ratio of its registration to the total U. S. registration.

For "Tires and Tubes," the Rubber Manufacturers Association figures for wholesale volume were marked-up and prorated also according to the number of cars in use.

For "Lubricating Oil," the Public Roads Administration figures of each state's gasoline consumption by road vehicles were made the basis, using an estimated ratio of oil to gasoline used and an assumed average retail sales price per gallon.

No attempt has been made to estimate general sales taxes on other automotive products or services such as second-hand parts, repairs, garaging, etc.

①—Lubricating oil, exempt from sales tax. Sales tax includes gross income tax, gross receipts tax, and general retail sales tax.

\$870,692,000 State Gasoline Taxes in 1940

(Compiled for calendar year from reports of state authorities, by the
U. S. Public Roads Administration)

IN THOUSANDS OF DOLLARS

RECEIPTS FROM TAXATION OF MOTOR FUEL

OTHER RECEIPTS IN CONNECTION WITH MOTOR-FUEL TAX

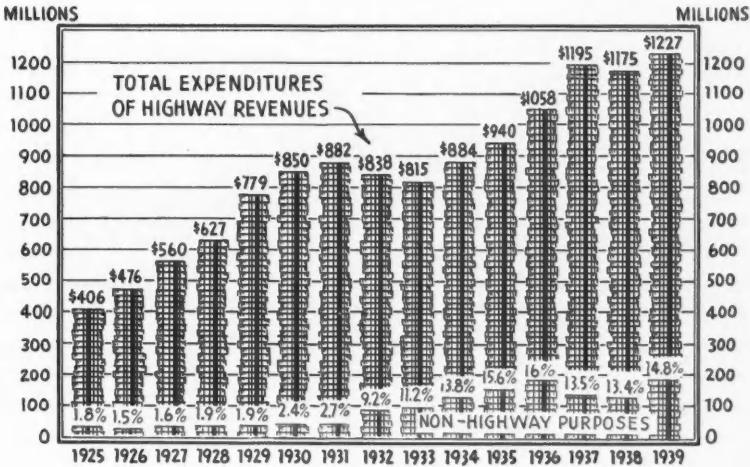
State	Gross Receipts	Refunds Paid	Net Receipts	Dis-tributors' & Dealers' Licenses	Inspection Fees ①	Fines and Penalties	Miscellaneous Receipts	Total	Net Total Receipts
Ala.....	15,470	.....	15,470	.....	65	.....	.....	65	15,535
Ariz.....	5,556	789	4,767	*	.....	2	.....	2	4,769
Ark.....	11,312	.....	11,312	.....	100	*	.....	100	11,412
Calif.....	56,561	4,601	51,960	17	.....	.....	1	18	51,978
Colo.....	9,632	1,341	8,291	.....	.....	.....	.....	.....	8,291
Conn.....	11,278	246	11,032	51	.....	1	.....	52	11,084
Del.....	2,483	161	2,322	.....	3	.....	.....	3	2,325
Fla.....	26,929	.....	26,929	39	480	.....	.....	519	27,448
Ga.....	22,809	.....	22,809	32	.....	.....	.....	32	22,841
Idaho.....	5,281	459	4,822	1	.....	.....	2	3	4,825
Ill.....	45,267	3,907	41,360	.....	463	1	.....	464	41,824
Ind.....	27,787	2,293	25,494	*	573	.....	1	574	26,068
Iowa.....	17,190	2,598	14,592	63	.....	.....	.....	63	14,655
Kan.....	10,402	.....	10,402	15	110	.....	35	160	10,562
Ky.....	14,713	.....	14,713	.....	.....	4	.....	4	14,717
La.....	16,584	.....	16,584	.....	87	*	.....	87	16,671
Me.....	6,158	218	5,940	.....	.....	*	.....	*	5,940
Md.....	12,282	834	11,448	.....	.....	.....	.....	.....	11,448
Mass.....	22,328	927	21,401	93	.....	*	.....	93	21,454
Mich.....	34,116	1,650	32,466	5	.....	8	.....	13	32,479
Minn.....	20,933	2,588	18,345	1	174	1	5	181	18,526
Miss.②.....	12,337	406	11,931	.....	.....	.....	.....	.....	11,931
Mo.....	13,893	592	13,301	.....	143	11	.....	154	13,455
Mont.....	6,378	1,310	5,068	.....	6	.....	.....	6	5,074
Neb.....	12,042	300	11,742	10	120	.....	29	159	11,901
Nev.....	1,589	104	1,485	*	21	1	.....	22	1,507
N. H.....	3,790	174	3,616	.....	.....	1	.....	1	3,617
N. J.....	26,546	2,320	24,226	93	.....	1	17	111	24,337
N. M.....	5,245	569	4,676	23	.....	.....	.....	23	4,699
N. Y.....	75,301	2,246	73,055	61	.....	.....	*	61	73,116
N. C.....	26,932	698	26,274	.....	1,089	.....	9	1,098	27,372
N. D.....	3,412	61	3,351	*	77	.....	24	101	3,452
Ohio.....	53,374	2,585	50,789	.....	.....	.....	.....	.....	50,789
Okla.....	14,795	24	14,771	.....	296	.....	.....	296	15,067
Ore.....	12,931	1,572	11,359	.....	.....	*	.....	*	11,359
Pa.....	62,487	.....	62,487	.....	.....	8	.....	8	62,495
R. I.....	4,277	336	3,941	4	.....	.....	.....	4	3,945
S. C.....	13,899	277	13,622	.....	288	.....	.....	288	13,910
S. D.....	5,622	1,169	4,453	.....	74	.....	.....	74	4,527
Tenn.....	21,245	133	21,112	.....	1,146	.....	62	1,208	22,320
Texas.....	55,346	7,828	47,518	.....	.....	.....	12	12	47,530
Utah.....	4,055	.....	4,055	*	.....	1	*	1	4,056
Vt.....	2,781	.....	2,781	.....	.....	*	.....	*	2,781
Va.....	20,645	1,241	19,404	1	.....	4	1	6	19,410
Wash.....	18,638	1,466	17,172	3	.....	.....	10	13	17,185
W. Va.....	10,981	301	10,680	11	.....	.....	.....	11	10,691
Wisc.....	22,861	1,711	21,150	.....	161	.....	.....	161	21,311
Wyo.....	2,772	.....	2,772	2	.....	.....	.....	2	2,774
D. of C.....	3,244	22	3,222	7	.....	.....	.....	7	3,229
Total.....	914,489	50,017	864,472	495	5,473	44	208	6,220	870,692

*Stars indicate amounts less than \$500.

①—Fees for inspection of motor-vehicle fuel. Wherever possible, fees for inspection of kerosene and other non-motor-vehicle fuels have been eliminated.

②—Special county taxes of 3 cents per gallon in Hancock County and 2 cents per gallon in Harrison and Jackson Counties, amounting to \$197,000 in 1940, are imposed for small seawall protection and are not included in this table.

One Eighth of Highway Tax Dollars Diverted



Distribution of State Motor Vehicle Taxes

(SOURCE: U. S. Public Roads Administration)

(In Thousands of Dollars)

Year	Collection and Administration	State Highway Purposes	Local Roads and Streets	Debt Service	Non-Highway Use Amount	% of Total	Total
1925	\$11,961	\$277,348	\$84,234	\$24,977	\$7,179	1.8	\$405,699
1926	16,350	320,831	101,288	30,513	6,903	1.5	475,885
1927	15,376	374,738	112,815	47,968	8,793	1.6	559,690
1928	15,675	422,034	127,481	49,446	12,046	1.9	626,882
1929	18,226	523,307	166,164	56,556	14,697	1.9	778,950
1930	20,319	565,037	177,266	67,359	20,160	2.4	850,141
1931	23,065	559,794	190,198	85,063	23,600	2.7	881,720
1932	20,707	464,873	186,286	89,738	76,747	9.2	838,351
1933	27,025	407,507	189,480	99,518	91,577	11.2	815,107
1934	28,975	381,985	215,071	135,536	122,150	13.8	883,717
1935	31,760	389,364	230,424	141,745	147,143	15.6	940,436
1936	37,942	435,116	256,461	159,132	169,344	16.0	1,057,995
1937	42,529	557,364	265,737	168,089	161,413	13.5	1,195,132
1938	43,978	685,976	280,037	①	157,516	13.4	1,175,205②
1939	44,478	694,522	301,885	①	181,654	14.8	1,226,916②

NOTE:—Taxes include state motor vehicle registration receipts, special motor carrier taxes, and gas taxes.

①—Included in columns for state and local purposes.

②—Includes expenditures for "park and forest roads", \$7,698,000 in 1938 and \$4,377,000 in 1939.

Special Motor Truck Taxes by States—1940

Excluding Personal Property, Other General Taxes

(SOURCE: Estimates made by the Automobile Manufacturers Association based on 1939 data of the U. S. Public Roads Administration)

	License Fees ① (State)	Gasoline Taxes ② (State)	Federal Excise Tax ③	Total
Alabama.....	\$1,340,000	\$4,442,400	\$1,424,150	\$7,206,550
Arizona.....	764,000	1,560,000	558,421	2,882,421
Arkansas.....	1,182,000	4,992,000	1,448,911	7,622,911
California.....	8,995,000	11,844,000	7,047,945	27,886,945
Colorado.....	1,221,000	2,544,000	1,147,691	4,912,691
Connecticut.....	1,863,000	2,768,508	1,642,918	6,274,426
Delaware.....	369,000	576,000	271,644	1,216,644
Florida.....	2,795,000	6,678,000	1,779,534	11,252,534
Georgia.....	931,000	6,627,816	2,079,088	9,637,884
Idaho.....	712,000	1,980,000	718,093	3,410,093
Illinois.....	6,971,000	8,325,864	5,043,699	20,340,563
Indiana.....	2,894,000	6,311,184	2,872,947	12,078,131
Iowa.....	3,754,000	3,681,084	2,236,756	9,641,840
Kansas.....	2,220,000	3,683,304	2,186,842	8,090,146
Kentucky.....	2,188,000	4,541,760	1,664,433	8,394,193
Louisiana.....	2,282,000	7,118,412	1,835,317	11,235,729
Maine.....	920,000	1,972,896	900,909	3,793,805
Maryland.....	1,008,000	3,147,840	1,429,109	5,585,949
Massachusetts.....	1,643,000	4,014,000	2,443,635	8,100,635
Michigan.....	7,669,000	5,536,980	3,401,957	16,607,937
Minnesota.....	2,363,000	3,368,032	2,620,435	10,351,467
Mississippi.....	814,000 ①	4,391,784	1,375,162	6,580,946
Missouri.....	2,252,000	3,588,000	3,278,412	9,118,412
Montana.....	453,000	2,869,080	1,027,939	4,350,019
Nebraska.....	1,027,000	3,855,000	1,378,842	6,260,842
Nevada.....	313,000	404,544	188,309	905,853
New Hampshire.....	569,000 ②	1,204,560	538,597	2,312,157
New Jersey.....	4,823,000	4,930,488	2,991,209	12,704,697
New Mexico.....	821,000	1,732,440	634,707	3,188,147
New York.....	12,921,000	16,148,736	7,242,755	36,312,491
North Carolina.....	3,690,000	6,580,008	2,056,593	12,326,601
North Dakota.....	390,000	1,747,776	789,447	2,927,223
Ohio.....	10,285,000	6,768,000	4,149,471	21,202,471
Oklahoma.....	3,492,000	4,673,136	2,117,308	10,282,444
Oregon.....	2,682,000	4,369,860	1,589,729	8,621,589
Pennsylvania.....	11,165,000	13,723,200	6,248,074	31,136,274
Rhode Island.....	549,000	749,592	443,450	1,742,042
South Carolina.....	1,094,000	3,322,000	1,034,455	5,450,455
South Dakota.....	877,000	1,563,648	701,655	3,142,303
Tennessee.....	1,387,000 ③	6,892,368	1,836,397	10,115,765
Texas.....	8,190,000	17,130,768	7,703,229	33,023,997
Utah.....	556,000	1,080,000	494,668	2,130,668
Vermont.....	652,000	460,800	226,629	1,339,429
Virginia.....	2,111,000	4,690,740	1,757,274	8,559,014
Washington.....	1,764,000	5,490,000	1,967,611	9,221,611
West Virginia.....	1,537,000	3,120,000	1,158,694	5,815,694
Wisconsin.....	5,612,000	7,257,000	3,204,922	16,073,922
Wyoming.....	485,000	912,000	412,747	1,809,747
Dist. of Columbia.....	788,000	386,616	350,172	1,524,788

Total..... \$135,345,000

\$227,728,224

\$101,595,071

\$464,666,295

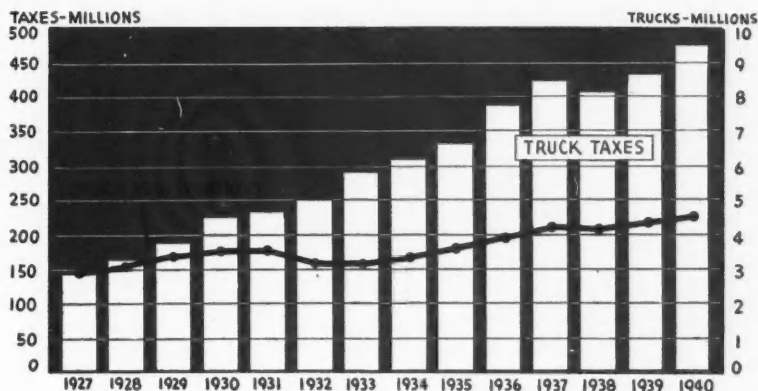
Total (Including bridge, tunnel, ferry tolls, and a partial count of municipal and county taxes—not segregated by states \$11,676,000 ④)

\$476,342,295

NOTES:

- ①—Estimated from 1939 license fees. Includes motor carrier taxes, titling, and trailer fees, but omits dealers, operators, chauffeurs' licenses and miscellaneous receipts.
- ②—Estimated by multiplying United States average tax per truck for those states segregating truck taxes by the number of trucks registered.
- ③—Estimated by multiplying the trucks registered in each state by a yearly average consumption of 1,200 gallons per truck by the gas tax effective in that state.
- ④—United States totals from Bureau of Internal Revenue; excise tax on sales of new trucks distributed by states according to Polk's new truck registrations; excise tax on truck share of gasoline, lubricating oil, parts, and tires distributed by states according to total truck registrations.
- ⑤—1940 estimates based on data contained in "Taxation of Motor Vehicles in 1932" by the Public Roads Administration.

1940 Motor Truck Taxes At New High



Special Taxes on Trucks Total \$476,342,000 in 1940

Personal property taxes on trucks in operation, income and property taxes on garages, terminals, repair shops, and trucking companies are not included.

In Thousands of Dollars

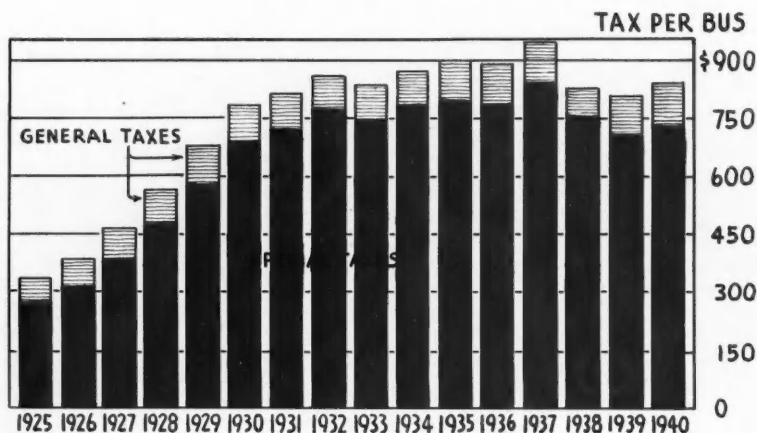
Year	Registration Fees (State)	Motor Carrier and Trailer Fees (State)	Gasoline Tax (State)	Federal Excise Taxes	Special City & County Taxes ①	Total Special Taxes	Average Per Truck Registered
1927	\$64,691	\$ 1,005	\$ 75,108	.....	\$ 6,000	\$146,804	\$ 50.53
1928	69,400	1,402	87,161	.....	6,400	164,363	52.86
1929	72,823	1,607	108,506	.....	6,800	189,736	56.28
1930	78,789	1,955	138,055	.....	7,200	225,999	64.91
1931	76,616	2,758	144,756	.....	7,600	231,730	67.15
1932	74,046	8,577 ①	139,376	\$ 19,510	8,000	249,509	77.44
1933	68,659	11,683	142,287	59,459	8,750	290,838	90.46
1934	71,852	13,906	154,170	60,516	9,000	309,444	90.86
1935	78,598	17,998	161,743	65,598	10,000	333,937	91.63
1936	89,160	22,199	191,455	75,445	10,500	388,759	98.01
1937	95,115	24,966	208,783	82,508	11,000	422,372	99.75
1938	95,461	25,270	206,791	67,835	11,176	406,533	96.74
1939	101,786	26,618	216,434	75,889	11,676	432,403	98.50
1940	107,329	28,016	227,726	101,595	11,676	476,342	102.29

①—Includes special motor carrier taxes from 1932 to date. Prior to 1932 Trailer fees only are shown.

②—Includes tolls on bridges, ferries and tunnels.

SOURCE: First three columns from Public Roads Administration; Federal excise taxes based on reports of Internal Revenue; and special city and county taxes are estimates by Automobile Manufacturers Association.

Special Taxes Total \$704 Per Bus in 1940



Revenue Buses Paid \$38,028,340 Special Taxes, 1940

(Figures from National Association of Motor Bus Operators)

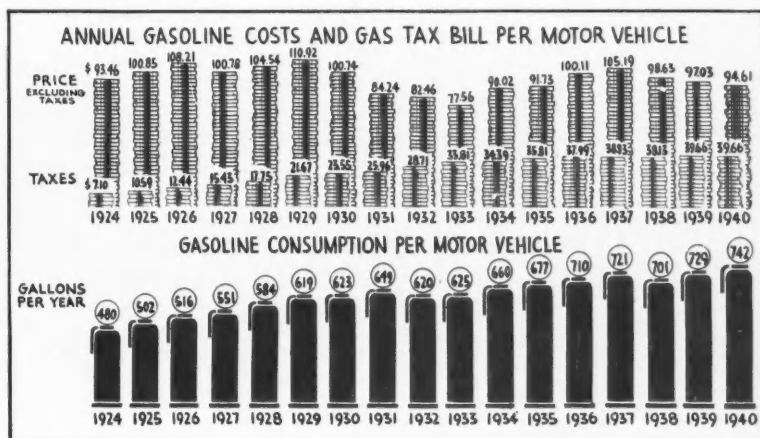
Year	Special Taxes	General Taxes*	Total Bus Taxes*	Special Taxes Per Bus	General Taxes Per Bus	Total Taxes Per Bus	Special Tax Per Bus Per Mile of Highway Used
1925	\$10,300,000	\$2,300,000	\$12,600,000	\$274.29	\$61.25	\$335.54	\$49.24
1926	13,100,000	3,000,000	16,100,000	311.65	71.37	383.02	55.36
1927	16,800,000	3,300,000	20,100,000	386.33	75.89	462.22	64.28
1928	21,200,000	3,800,000	25,000,000	474.61	85.07	559.68	74.16
1929	26,500,000	4,500,000	31,000,000	576.04	97.82	673.86	81.25
1930	31,200,000	4,900,000	36,100,000	677.00	106.32	783.32	90.87
1931	32,525,000	4,125,000	36,650,000	716.41	90.86	807.27	88.62
1932	34,500,000	4,150,000	38,650,000	766.67	92.22	858.89	90.93
1933	33,470,000	4,030,000	37,500,000	743.77	89.56	833.33	81.64
1934	33,300,000	3,980,000	37,280,000	774.42	92.56	866.98	82.91
1935	35,625,000	4,790,000	40,375,000	791.66	105.56	897.22	89.05
1936	38,475,500	5,125,500	43,601,000	785.22	104.60	889.82	97.18
1937	43,231,000	5,761,000	48,992,000	839.43	111.87	951.30	109.90
1938	38,845,086	5,156,825	43,701,912	748.95	100.13	848.58	101.48
1939†	35,994,000	5,859,560	41,854,000	698.24	113.67	811.91	100.35
1940	38,028,340	6,190,660	44,219,000	704.23	114.64	818.87	110.77

*Does not include income and excess profits taxes.

†Revised.

Taxes Add 44% to Annual Gasoline Costs

(SOURCE: American Petroleum Institute)



TAXES

Year	Average Annual Consumption per Motor Vehicle ① Gals.	Average Gas Tax ② \$ per Vehicle	SERVICE STATION PRICE ③ ¢ per Gallon		ANNUAL FUEL COST \$ per Vehicle		Per Cent Cost Added by Tax
			Ex. Tax	Inc. Tax	Ex. Tax.	Inc. Tax	
1920...	500	\$0.45	29.74¢	29.83¢	\$148.70	\$149.15	0.3
1921...	464	0.93	26.11	26.31	121.15	122.08	0.8
1922...	488	1.85	24.82	25.20	121.12	122.97	1.5
1923...	509	4.63	21.06	21.97	107.20	111.83	4.3
1924...	480	7.10	19.47	20.95	93.46	100.56	7.6
1925...	502	10.59	20.09	22.20	100.85	111.44	10.5
1926...	516	12.44	20.97	23.38	108.21	120.65	11.5
1927...	551	15.43	18.29	21.09	100.78	116.21	15.3
1928...	584	17.75	17.90	20.94	104.54	122.29	17.0
1929...	619	21.67	17.92	21.42	110.92	132.59	19.5
1930...	623	23.55	16.17	19.95	100.74	124.29	23.4
1931...	649	25.96	12.98	16.98	84.24	110.20	30.8
1932...	620	28.71	13.30	17.93	82.46	111.17	34.8
1933...	625	33.81	12.41	17.82	77.56	111.37	43.6
1934...	660	34.39	13.64	18.85	90.02	124.41	38.2
1935...	677	35.81	13.55	18.84	91.73	127.54	39.0
1936...	710	37.99	14.10	19.45	100.11	138.10	37.9
1937...	721	38.93	14.59	19.99	105.19	144.12	37.0
1938...	701	38.13	14.07	19.51	98.63	136.76	38.7
1939...	729	39.66	13.31	18.75	97.03	136.69	44.4
1940...	742	42.00	12.75	18.41	94.61	136.60	44.4

①—Bureau of Mines' estimate of automotive motor-fuel demand (89 per cent of total domestic motor-fuel demand), divided by average number of motor vehicles in use during each year.

②—Includes Federal, State and Local taxes.

③—Average gasoline prices in 50 cities, compiled by The Texas Company.

Motor Vehicle Gasoline Consumption by States

(SOURCE: U. S. Public Roads Administration)

Excludes Consumption by Vehicles Owned by Federal, State and Local Governments and for Non-Highway Purposes

State	THOUSANDS OF GALLONS				
	1936	1937	1938	1939	1940 ^①
Alabama	188,931	210,673	211,492	224,102	259,915
Arizona	78,304	86,396	83,434	86,464	95,707
Arkansas	140,566	149,880	148,974	162,913	162,328
California	1,464,072	1,561,258	1,549,106	1,644,566	1,758,326
Colorado	172,046	184,801	186,665	194,108	206,742
Connecticut	287,242	313,528	311,030	332,286	364,594
Delaware	47,677	50,878	52,428	53,853	58,397
Florida	273,070	302,640	309,495	330,461	388,717
Georgia	283,475	308,681	311,217	328,964	386,847
Idaho	74,700	80,570	80,313	86,402	94,565
Illinois	1,143,272	1,217,974	1,243,493	1,316,962	1,410,967
Indiana	520,103	570,186	555,993	588,897	641,164
Iowa	410,306	429,590	441,086	462,489	485,995
Kansas	316,438	333,498	333,260	329,251	346,720
Kentucky	216,502	238,940	241,686	258,397	295,205
Louisiana	201,392	221,204	214,289	224,942	264,057
Maine	127,306	137,649	135,037	139,338	149,130
Maryland	226,128	248,128	246,253	264,853	286,636
Massachusetts	625,629	664,561	653,293	675,476	713,358
Michigan	868,947	972,939	907,688	994,081	1,082,006
Minnesota	404,065	433,143	442,194	461,567	497,556
Mississippi	151,879	167,175	166,321	185,092	197,570
Missouri	548,168	566,614	575,836	616,568	658,321
Montana	90,459	90,983	88,126	97,140	104,451
Nebraska	200,064	199,329	198,907	205,354	233,438
Nevada	28,052	30,203	30,079	33,689	35,717
New Hampshire	78,608	82,807	82,074	87,028	90,822
New Jersey	696,746	761,641	774,816	805,452	822,426
New Mexico	69,445	79,800	80,720	85,106	94,196
New York	1,613,016	1,702,621	1,703,407	1,764,001	1,836,977
North Carolina	335,097	373,317	374,063	392,796	440,548
North Dakota	79,570	88,647	87,890	81,399	85,780
Ohio	1,076,854	1,167,989	1,134,836	1,206,732	1,320,885
Oklahoma	330,992	344,027	353,135	358,028	378,275
Oregon	186,193	196,127	195,300	208,445	228,396
Pennsylvania	1,225,894	1,353,491	1,322,570	1,387,155	1,575,078
Rhode Island	114,057	118,644	116,208	125,199	131,556
South Carolina	152,959	173,360	174,573	190,823	229,398
South Dakota	96,750	97,347	100,572	101,137	113,659
Tennessee	239,348	237,540	249,015	255,382	304,042
Texas	958,958	1,041,463	1,059,860	1,115,541	1,195,694
Utah	69,013	75,720	81,643	90,786	102,425
Vermont	55,880	61,887	60,395	63,942	69,926
Virginia	298,888	322,667	330,910	354,081	392,386
Washington	288,560	305,082	302,156	313,650	347,872
West Virginia	174,930	192,079	181,540	205,705	214,983
Wisconsin	452,709	484,315	475,050	498,614	529,733
Wyoming	50,569	55,049	54,808	56,563	68,999
Dist. of Columbia	121,625	131,080	133,325	142,776	160,954
Total	17,855,454	19,218,121	19,146,561	20,188,576	21,913,441

①1940 data on gasoline consumption for highway purposes only are not available at time of going to press. These figures are "net amounts taxed at prevailing rates" which in 1939 were 449,822,000 gallons higher than the 20,188,576 gallons for strictly highway uses in United States or only 2% higher.

1940 Gasoline Consumption Up 6 Percent

(SOURCE: U. S. Public Roads Administration)

All States Pass 1939, Average Increase 6.2%
In Thousands of Gallons

State	Tax Rate Per Gallon on Dec. 31 Cents	Gross Amount Reported (1)	Amount Exempted From Payment of Tax (2)	Gross Amount Assessed for Taxation	Amount Subject to Refund of Entire Tax	NET AMOUNT TAXED			
						Total	At Pre- vailing Rate 1940	At Pre- vailing Rate 1939	1940 % Inc.
Ala.....	6	259,915		259,915		259,915	259,915	241,375	7.7
Ariz.....	5	113,435	4,575	108,860	13,193	95,707	95,707	89,939	6.4
Ark.....	6.5	191,421	7,620	183,801		183,801	182,328	185,709	4.3
Calif.....	3	1,948,880	37,198	1,911,682	153,356	1,758,326	1,758,326	1,673,780	5.1
Colo.....	4	251,777	8,647	243,130	36,490	206,742	206,742	198,448	5.4
Conn.....	3	380,375	7,567	372,808	8,214	364,594	364,594	335,146	8.8
Del.....	4	63,920	1,498	62,422	4,025	58,397	58,397	54,410	7.3
Fla.....	7	408,124	19,407	388,717		388,717	388,717	350,089	11.0
Ga.....	6	400,298	13,449	386,847		386,847	386,847	352,862	9.6
Ida.....	5.1	107,644	3,677	103,967		103,967	94,565	88,444	6.9
Ill.....	3	1,540,441		1,540,441	129,474	1,410,967	1,410,967	1,336,233	5.6
Ind.....	4	700,380	2,263	698,097	56,933	641,164	641,164	598,734	7.1
Iowa.....	3	572,720		572,720	86,725	485,995	485,995	469,102	3.6
Kan.....	3	503,586	186,866	346,720		346,720	346,720	334,577	3.6
Ky.....	5	305,334	10,129	295,205		295,205	295,205	275,107	7.3
La.....	7	278,083	5,855	272,228	4	272,224	264,057	247,419	6.7
Me.....	4	157,361	957	156,404		156,404	149,130	141,850	5.1
Md.....	4	314,606	4,854	309,752	20,107	289,645	286,636	265,548	7.8
Mass.....	3	747,204	2,941	744,263	30,905	713,358	713,358	683,733	10.4
Mich.....	3	1,353,835	116,333	1,137,202	54,819	1,082,383	1,082,383	994,048	8.8
Minn.....	4	593,842	29,563	564,279	66,723	497,556	497,556	469,578	6.0
Miss.....	6	214,538	9,171	205,367		205,367	197,570	188,426	4.9
Mo.....	2	697,545		697,545	39,224	658,321	658,321	620,791	6.0
Mont.....	5	137,639	7,061	130,578	26,127	104,451	104,451	98,919	5.6
Neb.....	5	244,354	10,697	233,657	4	233,653	233,438	232,119	0.6
Nev.....	4	42,788	2,663	40,125	2,602	37,523	35,717	33,618	6.2
N. H.....	4	95,827	95	95,732	4,352	90,822	90,822	88,448	2.7
N. J.....	3	898,684	2,978	895,706	73,280	822,426	822,426	773,346	6.3
N. M.....	5	110,917	5,569	105,348	11,152	94,196	94,196	86,374	9.1
N. Y.....	4	1,970,555	76,621	1,893,934	56,957	1,836,977	1,836,977	1,768,288	3.9
N. C.....	6	463,496	9,786	453,712		453,712	440,548	410,340	7.4
N. D.....	4	147,246	61,466	85,780		85,780	85,780	82,694	3.7
Ohio.....	4	1,473,856	73,094	1,400,762	12,958	1,387,804	1,320,885	1,231,223	7.3
Okla.....	4	441,161	62,316	378,845	570	378,275	378,275	365,735	3.4
Ore.....	5	264,672	5,017	259,655	29,816	229,839	229,396	212,809	7.4
Pa.....	4	1,581,975	6,897	1,575,078		1,575,078	1,575,078	1,476,077	6.7
R. I.....	3	133,963	1,271	132,692	1,134	131,558	131,558	126,695	3.8
S. C.....	6	234,307		234,307	4,909	229,398	229,398	206,953	10.8
S. D.....	4	148,713	2,836	145,877	29,218	113,659	113,659	103,987	9.3
Tenn.....	7	327,055	21,201	305,854	1,812	304,042	304,042	270,222	12.5
Tex.....	4	1,414,932	18,204	1,396,728	201,214	1,195,514	1,195,514	1,140,442	4.8
Utah.....	4	107,194	4,769	102,425		102,425	102,425	94,349	8.6
Va.....	4	70,806	880	69,926		69,926	69,926	67,137	4.2
Vt.....	5	417,599		417,599	24,669	392,930	392,386	358,541	9.4
Wash.....	5	388,348	10,776	377,572	27,700	347,872	347,872	320,941	8.4
W. Va.....	5	221,005		221,005	6,022	214,983	214,983	201,640	6.6
Wisc.....	4	589,789	17,670	572,119	42,386	529,733	529,733	507,776	4.3
Wy.....	4	70,753	1,754	68,999		68,999	68,999	65,673	5.1
D. of C.....	2	169,512	7,441	162,071	1,117	160,954	160,954	142,776	12.7
Total.....	3.96	24,167,190	854,008	23,313,182	1,258,151	22,055,031	21,913,441	20,629,979	6.2



①—Export sales and other amounts not representing consumption in state have been eliminated as far as possible. In cases where states failed to report amounts exempted from taxation, the gross amount taxed is shown in this column.

②—Includes allowances for evaporation and other losses, federal use, other public use, and nonhighway use, where initial exemptions rather than refunds are made.

③—Gallons taxed at 5 cents, 3,003,000; at 5.1 cents, 85,441,000.

④—Rate changed from 4 cents to 3 cents September 1.

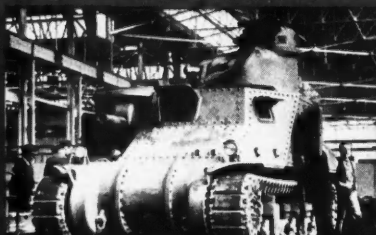
⑤—Gallons taxed at 3 cents, 35,693,000; at 4 cents, 47,001,000.

⑥—Amounts given do not include 65,204,000 gallons of liquid fuel (kerosene, fuel oil, etc.) taxed at 1 cent per gallon but not subject to the 3-cent tax on motor-vehicle fuel.

⑦—Revised.

⑧—Weighted average rate.

The Defense Assignments



No. 1

In the defense effort that we are sharing today, the automobile industry has shouldered a huge production job—as for everyone else, the defense is the number one job. . . .

From the start the automobile industry has taken this job as one that must have

All along the line the industry has fought against time. Energetic men—many hundreds of men—in tool departments, on construction sites—where—have pushed the industry to one preparation for production. The same effort goes forward

The record of the automobile industry is one of which the people of the world as well as those within the industry are proud. In it is evidence again of American industry for the well-being of all

Alvan

President, Automobile Industry

in the Automobile Industry

1. JOB

part that the whole country is automobile and truck producers have the production job. For them, the defense assignment is

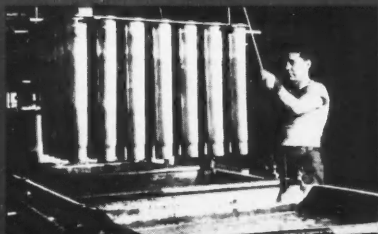
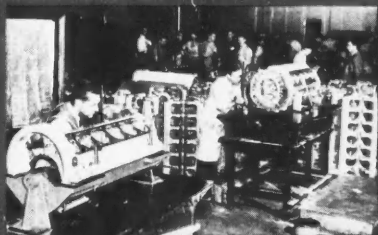
automobile companies saw must have the right of way. . . .

the job has been and is a energetic and devoted efforts of men—at drafting boards, in construction jobs, and elsewhere—through the thousand-and-production as never before. forward in production itself.

accomplishment to date is ample of the country generally that the industry can feel proud. of America's ability to produce of all.

Walter P. Reuther

President, Automobile Manufacturers Association



Motor Plants Producing Varied Defense Items

(Note: This list is not complete, but covers the range of products now being turned out by motor vehicle manufacturers.)

Aircraft Control Instruments	Field Range Cabinets	Refrigerators
Air Conditioning Units	Fire Directors	Scout Cars
Aircraft Machine Guns	Fire Pumps	Searchlight Carriers
Airplane Engines	Firing Control Equipment	Shells
Ambulances	Fleet Tugs	Submarine Chaser Engines
Anti-Aircraft Guns	Fleet Tug Engines	Submarine Engines
Automotive Parts	Forgings	Submarine Tender Engines
Bomb Fuses	Gun Carriages	Tanks
Bombers and Parts	Machine Guns	Tank Engines
Breech Housings	Mine Sweeper Engines	Tank Parts
Buses	Passenger Cars	Telephone Maintenance Trucks
Cargo Trucks	Personnel Carriers	Tools
Cartridge Cases	Pole Setter Trucks	Topographical Trucks
Coolers	Radio Trucks	Tractors
Dump Trucks	Recoil Cylinders	Tractor Trucks
Earth Boring Trucks	Reconnaissance Cars	Trailers
Escort Vessel Engines		

Sub-Contractors Share Motor Vehicle Defense Work

(Partial list of items sub-contracted)

Trucks

Windshield Assemblies
Axle Assemblies
Body Assemblies
Engines
Transmissions
Wheels
Brakes
Armor Plate
Generators
Gas Tanks
Tires and Tubes
Window Glass
Frames
Storage Batteries
Light Assemblies

Machine Gun Parts and Guns

Hand Grips
Projectile Case Ejectors
Hammers
Triggers
Breech Casings
Shoulder Rest Assemblies
Magazine Assemblies
Magazine Loading Frames
Gun Mount Assemblies
Extension Barrels
Packing Boxes
Firing Pins

Parts for Other Gun Types

Ammunition Components

Airplane Engines

Magnetos
Piston Rings
Super Charger Assemblies
Pistons
Crankcases
Cylinder Heads
Crankshafts
Prop Shafts
Starter Shafts
Oil Pumps
Spark Plugs
Exhaust Valves

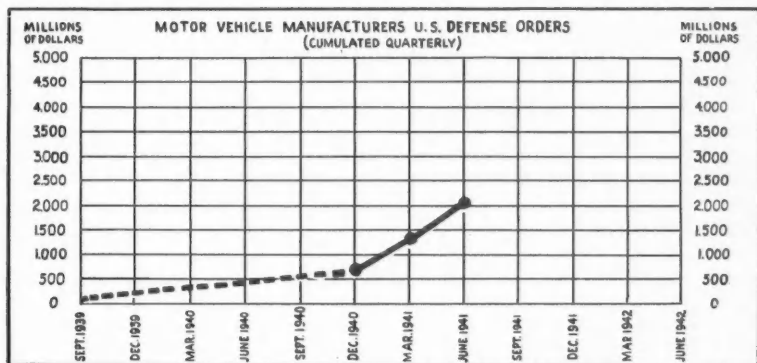
Marine Equipment

Propeller Shafts
Flywheels
Recording Instruments
Hulls—Tug Boats
Electrical Equipment
Pumps
Temperature Control Instruments
Vibration Control Instruments
Oil Clarifiers

DEFENSE

Defense Orders at \$2 Billion in June, 1941

Compiled by the Automobile Manufacturers Association from Published Data.



Quarterly cumulations for period prior to December, 1940 unavailable

Defense Work Assigned to Motor Vehicle Manufacturers by U. S. Government as of June, 1941*

Product	Value†	Percent of Total
Motor Vehicles.....	\$438,000,000	21.9
Motor Vehicle Parts.....	14,000,000	.7
Aircraft and Parts.....	1,082,000,000	54.1
Tanks and Parts.....	52,000,000	2.6
Marine Equipment.....	220,000,000	11.0
Guns and Ammunition.....	166,000,000	8.3
Electrical Equipment.....	12,000,000	.6
Miscellaneous.....	16,000,000	.8
Total.....	2,000,000,000	100.0



*Does not include defense orders awarded by the Canadian, British and other non-axis governments.

†Does not include value of plants and equipment, nor value of defense materials to be produced by automotive parts manufacturers.

Government-Financed Defense Plants and Equipment to Be Operated by Automobile Manufacturers

Product	Value*	Number of Plants
Airplane Engines.....	\$121,000,000	6
Airplane Parts.....	28,000,000	7
Ordnance.....	50,000,000	8
Aluminum Forgings.....	3,000,000	2
Tanks.....	20,000,000	1
Total.....	\$222,000,000	24

*Includes value of plants and equipment in the United States being built or to be built by motor vehicle manufacturers, but excludes plants and equipment of automotive parts companies.

187,000 Military Vehicles Delivered In Year

Deliveries of military vehicles by motor vehicle manufacturers totaled 187,000 units during the year ending July 31, 1941

U. S. Army Specifications on Motor Vehicles

The U. S. Army will use approximately 250,000* motor vehicles for an army of a million and a quarter men. These vehicles will be divided as follows:

Motorcycles	27,000
Bantam Car, the $\frac{1}{4}$ ton truck	4,500
Passenger Cars	5,900
Ambulances	3,400
Half-ton trucks pick-up and reconnaissance	69,000
1 $\frac{1}{2}$ ton trucks	44,000
2 $\frac{1}{2}$ ton trucks	58,000
4 ton trucks	3,800
6 ton and heavier trucks	3,800
2 $\frac{1}{2}$ ton truck-tractor with one trailer each	37,800

The uses for these trucks: $\frac{1}{4}$ ton Bantam car 4x4 light weapon carriers for the infantry; $\frac{1}{2}$ ton, 4x4, with bodies of various types, including command, reconnaissance, pickups, infantry weapon carrier, cross country ambulances and panel delivery trucks to perform a multitude of duties; 1 $\frac{1}{2}$ ton trucks, 4x4—a general purpose truck and a prime mover for 75 mm field guns; 2 $\frac{1}{2}$ ton truck, 6x6—a general purpose vehicle, prime mover for the 75 mm field gun, and the 105 mm howitzer, gasoline tanks and combination cargo and animal carrier; 4 ton truck, 6x6—used for towing 155 mm howitzers and by the Engineer Corps as a general purpose vehicle; 6 ton, 6x6—the prime mover for the 3-inch and the 90 mm anti-aircraft gun mounts; 4-5 ton truck, 4x4—tractor trucks for towing semi-trailers, such as fueling units and oil servicing trucks for the Air Corps; 5-6 ton trucks, 4x4—tractor trucks for semi-trailer mounted pontoons, and semi-trailers for various bulky loads, such as the Corps of Engineers topographical unit.

DEFENSE

The Automobile Industry Is Equipped to Produce Vehicles to Military Specifications

Principal modifications applied to commercial vehicles to meet military specifications for cross country mobility:

Front driving axles	Radiator and headlight brush guards
Adjustable windshields	Military type front and rear fenders
Blackout Lighting Equipment	Special spare tire
Towing hooks and pintles	Gasoline tank mountings, etc.
Series-parallel switches	

Military vehicle requirements:

Maximum ground clearance
Careful balance between gross weight and tire contact to provide flotation yet maintain traction

High angles of approach and departure:

- Ability to climb a grade of 40 to 50 degrees
- Ability to make departure ranging from 30 to 45 degrees

Speed:

- Forty to fifty miles an hour or faster by day
- Fifteen or twenty miles per hour at night without lights

From Address by Major General E. B. Gregory, Quarter Master General,
To Society of Automotive Engineers, January 7, 1941

*The Army's program later was announced as comprising 286,000 military vehicles. The additional 36,000 vehicles were reported to be for "ready availability."

Motor Plants Sub-Contract 45% of Defense Orders

Approximately 45% of the value of defense contracts held by motor vehicle manufacturers will be let out to suppliers in the form of sub-contracts, according to a random sample of 104 contracts.

Motor Vehicle Manufacturers Have Placed Sub-Contracts on Defense Work in 21 States*

*(Primary sub-contracts placed or processed components purchased by motor vehicle makers have been traced to the following States. Virtually all States share in the supply of materials.)

Michigan
Ohio
New York
Illinois
Maryland
Rhode Island
Tennessee

Indiana
New Jersey
Wisconsin
Connecticut
Kentucky
West Virginia
Texas

Massachusetts
Pennsylvania
Iowa
Delaware
California
District of Columbia
Minnesota

Estimated Minimum Savings of Scarce Metals

To Be Made in 1942 Model Year Over 1941 Through Cooperation of Automobile Industry in National Defense Program

(These estimates reflect both the savings to be made per car and the effects of the initially requested 20.15% curtailment of civilian vehicle output.)

DEFENSE

Material	Passenger Cars		Trucks*		Passenger Cars and Trucks*	
	Pounds	% of 1941	Pounds	% of 1941	Pounds	% of 1941
Aluminum, Primary.....	19,332,168	91.5	2,632,560	49.9	21,964,728	83.2
Aluminum, Secondary.....	2,188,932	12.9	1,067,960	18.1	3,226,892	14.2
Total Aluminum.....	21,491,100	56.7	3,700,520	33.1	25,191,620	51.3
Nickel.....	7,039,294	59.5	2,642,108	63.7	9,681,402	60.6
Nickel Steel.....	185,810,576	76.9	102,226,404	55.4	288,036,980	67.6
Estimated Nickel Content in Steel	4,340,964	79.9	1,942,704	52.0	6,283,668	68.5
Magnesium.....	480,180	96.7	237,044	83.7	717,224	91.9
Zinc.....	118,914,240	63.9	8,984,180	45.7	127,898,420	62.1
Chromium.....	2,128,376	11.1	168,056**	4.1**	1,958,320	8.5
Copper.....	36,087,408	18.6	4,320,912	8.3	40,408,320	16.5
Lead.....	28,144,248	20.2	3,176,900	9.1	31,321,148	18.0
Tin.....	3,045,396	20.9	281,200	9.0	3,326,596	18.8
Tungsten.....	105,660	67.9	33,784	50.7	139,444	62.8

*Excludes buses.

**Increase. To make the greatest possible savings in nickel used in nickel steel, chromium was substituted; This table allows for not more than a 10% cut in truck production and does not consider the probability of a greater consumption due to the production of military vehicles outside the quotas.

Data obtained from individual company responses representing approximately 99% of passenger car production and 95% of truck production.

U. S. Automotive Defense Advisory Committee

(Set up under Office of Production Management)

J. S. Adams, Chairman

Motor Vehicle Manufacturers' Section :

B. E. Hutchinson, Chrysler Corporation
Donaldson Brown, General Motors Corporation
R. I. Roberge, Ford Motor Company
Paul G. Hoffman, The Studebaker Corporation
A. E. Barit, Hudson Motor Car Company
George W. Mason, Nash-Kelvinator Corporation
Joseph W. Frazer, Willys-Overland Motors, Inc.
William F. McAfee, International Harvester Company
E. J. Bush, Diamond T Motor Car Company
Robert F. Black, The White Motor Company
R. P. Page, Jr., The Autocar Company

Motor Truck Sub-Committee :

I. B. Babcock, Yellow Truck & Coach Manufacturing Company (Chairman)
M. E. Coyle, Chevrolet Division, General Motors Corporation
L. D. Cosart, Dodge Division, Chrysler Corporation
R. E. Burns, Ford Motor Company
Charles T. Ruhf, Mack Manufacturing Corporation
E. J. Bush, Diamond T Motor Car Company
W. F. McAfee, International Harvester Company
Fred T. MacRae, The White Motor Company
T. R. Lippard, Federal Motor Truck Company

NOTE: The main Committee is to be composed of the motor vehicle manufacturers' section and eight representatives of parts manufacturers, not yet appointed at time of going to press. It was announced additional sub-committees also would be appointed.

DEFENSE

Automotive Representation on U. S. Army Technical Advisory Committees

Automotive manufacturing companies are represented by one or more men on each of the following technical defense advisory committees:

U. S. Army Ordnance

Ordnance Advisory (S.A.E.)

Tank

Half-Track Vehicle

Automatic Cannon

Fire-Control Apparatus

Rifled-Bore Shell

Bar-Stock Shell

Petroleum Products

Bomb-Fuse

Cartridge-Case

Artillery Fuse

Power Plant (S.A.E.)

Track and Suspensions (S.A.E.)

U. S. Army Quartermaster Corps

(In cooperation with S.A.E.)

Quartermaster Corps Advisory

Body Sub-Committee

Chassis Sub-Committee

Electrical Sub-Committee

Engine Sub-Committee

Transmission and Axle Sub-Committee





Role of Passenger Car in U. S. Economy

Results of Automobile Usage Survey

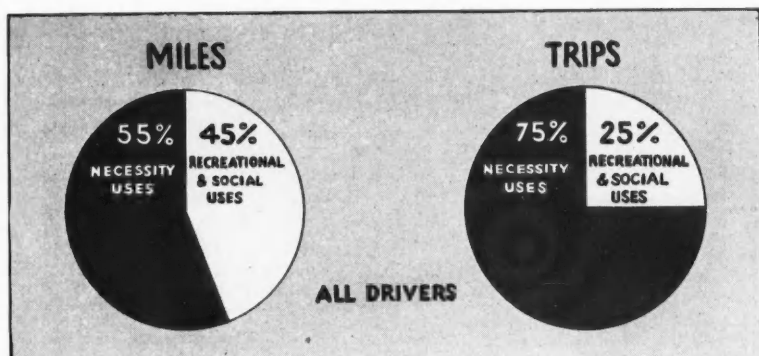
Summarized in tabular form on the following pages are results of a survey of the day-by-day use of the private automobile by the American public.

The information on mileage and trips by purpose of travel was gathered by State highway departments in connection with the planning surveys out of which the nation's master plan for future highway development has evolved. Analysis of the data was made through the cooperation of the U. S. Public Roads Administration and the highway authorities. Questionnaires analyzed in detail cover 76,000 car owners, representing 3,400,000 motorists in six representative States.

Because they were obtained prior to 1939, the figures do not reflect the expanded transportation job which the national defense program is imposing on the private automobile, especially in armament production areas.

USE

77% of Automobile Trips for Necessity Uses



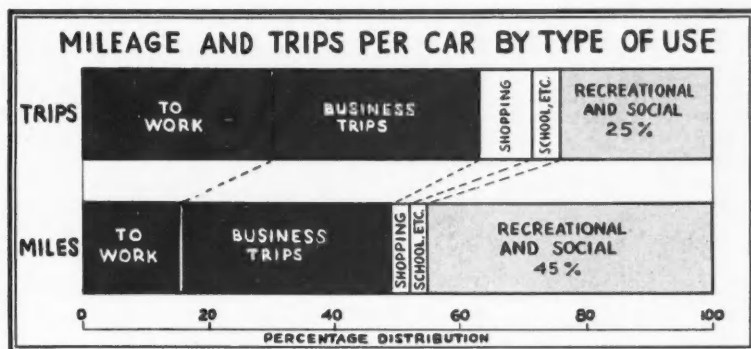
	Per Cent of Miles		Per Cent of Round Trips	
	For Necessity Use	For Recreational and Social Use	For Necessity Use	For Recreational and Social Use
Travel by Residents of—				
Farms and Unincorporated Areas.....	64%	36%	78%	22%
Incorporated Places Having a Population of—				
0-1,000.....	60	40	77	23
Total Rural.....	64	36	78	22
Incorporated Places Having a Population of—				
1,001- 2,500.....	54	46	76	24
2,501- 5,000.....	55	45	79	21
5,001- 10,000.....	51	49	78	22
10,001- 25,000.....	54	46	79	21
25,001-100,000.....	48	52	76	24
Over 100,000.....	49	51	75	25
Total Urban.....	50	50	76	24
Total.....	55	45	77	23

USE

Reaching the Job by Automobile

"So far as automobile-owning families are concerned, the picture of workers' homes clustered about mill or factory is obsolete. On the contrary, 70 per cent of workers in car-owning families go to work by automobile."—From a survey by the Opinion Research Corporation.

Over Half of Car Mileage for Necessity Uses



Purposes of Passenger Car Uses

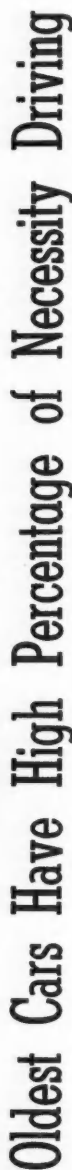
Purpose	Miles		Round Trips	
	Annual Average Per Car	Percent of Total	Annual Average Per Car	Percent of Total
To Work.....	1,295	16%	179	33%
Business Trips.....	2,662	32	167	30
Shopping.....	335	4	47	9
Hauling and to Market.....	64	1	7	1
To School.....	57	1	9	2
To Church.....	63	1	12	2
Total Necessity Use.....	4,479	55	422	77
Recreational and Social.....	3,707	45	128	23
Total—All Uses.....	8,186	100	550	100

USE

95% of Passenger Cars Employed Partly or Wholly on Necessity Trips

Type of Use	Percent of Cars Used for Indicated Purpose*		
	Rural Areas	Urban Areas	All Areas
To Work.....	28%	59%	48%
Business Trips.....	80	54	63
Shopping.....	31	42	38
To School.....	8	6	7
To Church.....	27	21	23
Necessity Use—Any Type.....	97%	94%	95%

*The percentages shown for individual types of use are under-statements due to the fact that many trips represent combinations of several purposes. For example, a passenger car may be used to take children to school on the way to work. Such use would generally be reported as "to work" only.



Commercial Travelers Have Highest Mileages, Physicians Most Trips

58

Smaller Cities Depend Most on Private Cars

Types of Transportation Carrying Passenger Load

(Excludes Pedestrians)

Per Cent of Persons Entering
and Leaving Central Districts By:

City	Automobile	Bus	Truck	Other Transportation
Population under 100,000:				
Midland, Mich.....	91.8%	.1%	8.1%	—
New Brunswick, N. J.....	73.2	11.9	13.0	1.9%
Kenosha, Wis.....	81.4	9.4	5.2	4.0
Hamilton, Ohio.....	75.5	15.4	7.9	1.2
Glendale, Cal.....	86.7	6.7	5.2	1.4
Lincoln, Neb.....	81.2	5.0	10.5	3.3
Saginaw, Mich.....	88.3	11.7	—	—
Schenectady, N. Y.....	71.0	13.5	11.6	3.9
Population 100,000 to 500,000:				
Youngstown, Ohio.....	60.3	—	7.2	32.5
St. Paul, Minn.....	64.8	2.4	8.6	24.2
Oakland, Cal.....	70.0	—	3.9	26.1
Portland, Ore.....	74.2	—	—	25.8
Louisville, Ky.....	66.5	3.5	12.4	17.6
Houston, Texas.....	78.5	15.8	5.7	—
Population 500,000 and Over:				
San Francisco, Cal.....	41.3	—	6.1	52.6
Pittsburgh, Pa.....	41.9	5.3	8.3	44.5
Boston, Mass.....	35.6	3.5	6.4	54.5
St. Louis, Mo.....	50.2	12.4	10.2	27.2
Cleveland, Ohio.....	56.8	4.1	5.6	33.5
Los Angeles, Cal.....	56.0	—	—	44.0
Detroit, Mich.....	49.2	9.9	1.7	39.2
Philadelphia, Pa.....	35.5	4.4	7.2	52.9
Chicago, Ill.....	30.3	6.9	3.1	59.7
New York, N. Y.....	14.2	12.0	4.6	69.2

USE

Compiled by the Automobile Manufacturers Association from traffic counts made by the cities or by WPA agencies, showing the number of persons entering and leaving central business districts by various methods of transportation on an average business day.

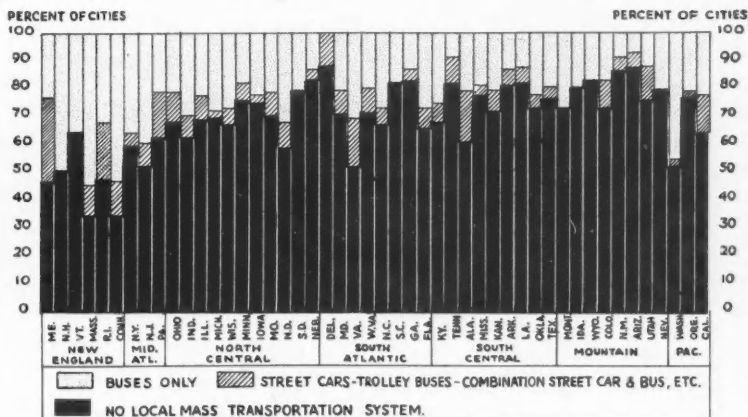
2,320 U.S. Cities with Population of 1

No. of Cities Without Local Mass Transp. Systems

State	Population Class ^①				Total Urban ^②	Urban Population Not Served	Percent Not Served	
	25,000 and Over	15,000 and Under 25,000	10,000 and Under 15,000	2,500 and Under 10,000 ^③			Cities	Urban Population
Ala.....		1	1	37	39	202,518	66.1	23.7
Ariz.....				14	14	71,749	87.5	41.2
Ark.....		1		42	43	202,901	81.1	47.0
Calif.....	1		8	99	108	666,740	64.7	13.6
Colo.....				22	22	112,487	73.3	19.0
Conn.....			3	8	11	77,101	34.4	6.7
Del.....				7	7	26,928	87.5	19.3
Fla.....			5	41	46	245,088	65.7	23.4
Ga.....		3	6	56	65	369,892	83.3	34.4
Idaho.....			3	18	21	101,140	80.8	57.2
Ill.....			10	144	154	844,115	74.0	14.5
Ind.....			4	57	61	318,094	62.2	16.9
Iowa.....			1	65	66	305,470	74.2	28.2
Kan.....			5	41	46	248,369	71.9	32.9
Ky.....			2	36	38	201,722	67.9	23.8
La.....		1	2	42	45	260,073	83.3	26.5
Me.....				12	12	63,966	46.2	18.6
Md.....			2	15	17	94,624	70.8	8.8
Mass.....	1		6	35	42	324,869	34.4	8.4
Mich.....	1		9	77	87	509,991	69.6	14.8
Minn.....			1	58	59	280,093	75.6	20.1
Miss.....			3	34	37	189,660	77.1	43.8
Mo.....			3	57	60	303,014	69.0	15.5
Mont.....				17	17	76,756	73.9	36.3
Neb.....			4	26	30	156,711	83.3	30.5
Nev.....				4	4	21,974	80.0	50.8
N. H.....			1	8	9	57,087	50.0	20.2
N. J.....	1	2	3	87	93	541,530	52.2	16.0
N. M.....			2	17	19	107,145	86.4	60.7
N. Y.....		3	6	110	119	646,938	58.6	5.8
N. C.....		2	4	45	51	275,846	67.1	28.3
N. D.....				7	7	40,302	58.3	30.5
Ohio.....		1	10	115	126	730,212	67.7	15.8
Okla.....		1	5	48	54	286,558	73.0	32.6
Ore.....			1	25	26	119,235	76.5	22.4
Pa.....		4	16	201	221	1,265,618	62.3	19.2
R. I.....	1		4	4	9	98,828	47.4	15.1
S. C.....		2	1	38	41	212,057	82.0	45.5
S. D.....			3	12	15	83,083	78.9	52.6
Tenn.....			3	45	48	238,468	84.2	23.2
Tex.....			8	142	150	754,293	76.5	25.9
Utah.....				19	19	77,595	76.0	25.4
Vt.....				9	9	48,034	64.3	39.0
Va.....			2	25	27	134,713	50.9	14.3
Wash.....			1	20	21	94,871	52.5	10.3
W. Va.....			2	30	32	155,522	71.1	29.1
Wisc.....			5	58	63	310,704	67.7	18.5
Wyo.....			2	8	10	53,139	83.3	57.0
Total...	5	21	157	2,137	2,320	12,607,823	67.0	16.9

See footnotes on opposite page.

of 12,607,823 Depend on Private Cars



Motor Buses Serve Most Cities Having Local Mass Transportation

Cities by Population Group	Total Cities in U. S.		Number of Cities Having Local Mass Transportation Systems ^②					③ No Local Mass Transportation	
	Num-ber	Popula-tion ^①	Street Cars	Trolley Buses	Motor Buses	Buses Only	Net Total	No. of Cities	Popula-tion
1,000,000 & over	5	15,910,866	(a) 5	(b) 1	(c) 5	(d) ...	(e) 5	.....	.....
250,000—1,000,000	32	14,284,473	31	2	32	2	32	.....	.....
100,000—250,000	55	7,792,650	24	5	54	30	55	.....	.....
50,000—100,000	107	7,343,917	44	8	105	55	107	.....	.....
25,000—50,000	213	7,417,093	36	5	203	169	208	5	131,662
15,000—25,000	291	5,461,429	34	5	262	237	270	21	370,953
10,000—15,000	374	4,505,469	31	3	209	186	217	157	1,829,631
2,500—10,000 ^④	2,387	11,707,805	29	16	216	193	250	2,137	10,275,577
Total Urban	3,464	74,423,702	234	45	1,086	872	1,144	2,320	12,607,823

This data compiled by the Automobile Manufacturers Association.

①—Population and number of places from Bureau of Census 1940.

②—Figures in columns a, b, and c may include a combination of more than one type.

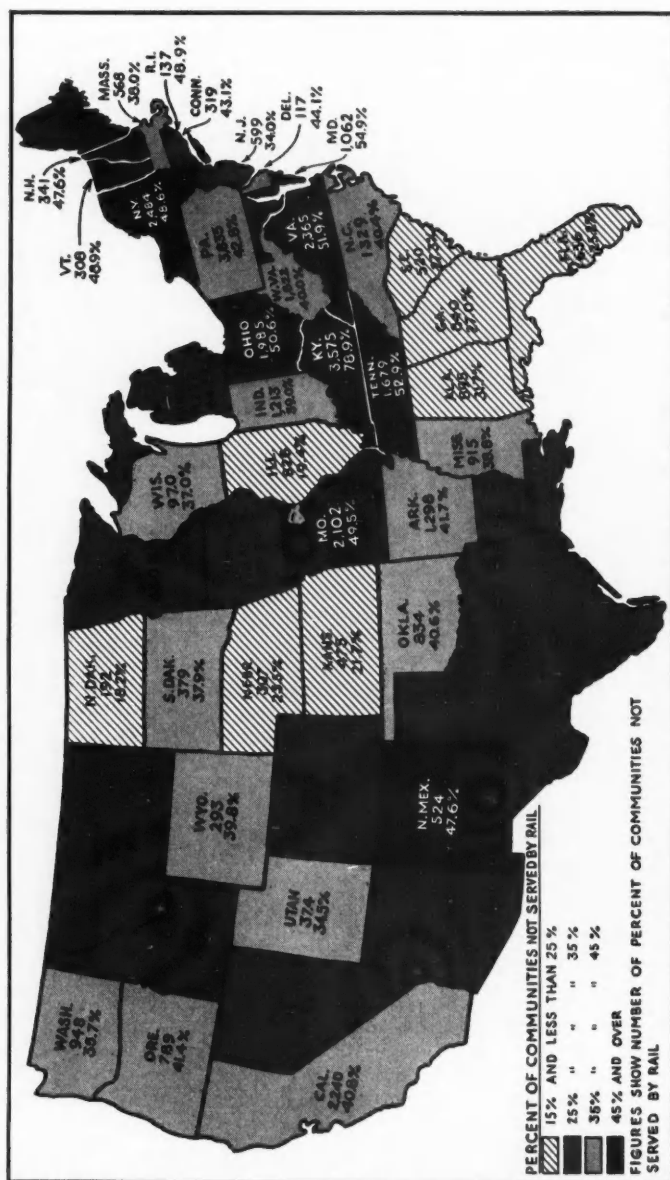
③—575 cities having only interurban service are considered as not having an adequate local mass transportation system.

④—807 cities estimated on basis of 1580 replies.

USE

48,000 U.S. Communities Depend on Motor Vehicles

39 Per Cent of All Communities Not Served by Rail



Automobiles Owned on 76% of U. S. Farms

(Source: Preliminary reports from the 16th Census of the United States: 1940)

State	No. Motor Vehicles on Farms		Per Cent of Farms Owning	
	Automobiles	Trucks	Automobiles	Trucks
Colorado.....	50,426	16,850	79.5	29.4
Connecticut.....	18,821	11,001	67.2	40.8
Delaware.....	8,164	2,567	76.0	24.6
Illinois.....	210,555	42,515	82.5	18.7
Iowa.....	236,601	26,352	90.2	11.7
Kansas.....	150,403	42,617	83.3	25.3
Kentucky.....	98,699	19,100	35.2	7.1
Maryland.....	38,848	13,058	70.5	27.2
Michigan.....	181,209	33,095	81.5	16.2
Minnesota.....	208,693	38,617	87.5	18.3
Missouri.....	176,285	31,771	63.5	11.7
Nebraska.....	126,269	24,090	88.8	18.6
Nevada.....	3,158	1,683	66.1	39.4
New Hampshire.....	12,901	6,469	65.2	33.2
New Jersey.....	24,223	17,106	71.7	52.6
North Carolina.....	127,476	20,621	42.4	6.9
North Dakota.....	71,907	21,518	83.0	27.0
Ohio.....	231,368	35,169	80.8	13.6
Rhode Island.....	2,883	1,982	71.0	48.2
South Dakota.....	72,675	14,269	86.3	18.6
Tennessee.....	85,233	18,908	31.8	7.2
Utah.....	16,759	6,238	60.4	22.8
Vermont.....	17,979	6,172	64.2	23.1
West Virginia.....	38,051	12,445	34.9	11.6
24 States.....	2,209,586	464,213	76.6	19.5

78% of Farm Car Trips for Necessity Uses

	Farmers		Drivers Resident in Rural Areas*		All Drivers	
	Miles	Round Trips	Miles	Round Trips	Miles	Round Trips
Annual Averages per Car						
All Use.....	5,750	392	7,149	453	8,186	550
Total Necessity Use...	3,837	307	4,562	352	4,479	422
To Work.....	223	25	973	96	1,296	179
Business Trips.....	2,997	220	2,952	189	2,662	167
Shopping.....	285	24	371	34	335	47
Hauling.....	113	9	81	7	64	7
School, Church, Etc...	219	28	185	26	122	22
Necessity Use—Per Cent of Total						
All Use.....	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total Necessity Use....	66.8	78.3	63.7	77.7	54.7	76.8
To Work.....	3.9	6.3	13.6	21.1	15.8	32.6
Business Trips.....	52.1	56.2	41.3	41.8	32.5	30.3
Shopping.....	5.0	6.0	5.2	7.5	4.1	8.6
Hauling.....	2.0	2.3	1.1	1.6	.8	1.3
School, Church, Etc...	3.9	7.5	2.5	5.7	1.5	4.0

NOTE: Farmers were 20% of all drivers surveyed and 54% of all drivers resident in rural areas.

*Including residents of incorporated places under 1,000 population.



292 Billion Vehicle-Miles Traveled in 1940

Estimate of Total Annual Travel by Passenger Cars, Trucks, and Buses in the United States^①

(SOURCE: Public Roads Administration)

All Columns in Million Vehicle-Miles	Travel in State of Vehicle's Registration				Total Travel Outside State of Regis- tration	Total Travel in United States
	On Roads in Unin- corporated Areas ^②	On Trans- City Con- nections and Local Streets	Total Travel in State of Regis- tration			
STATES						
Alabama.....	2,064	936	3,000	193	3,193	
Arizona.....	721	324	1,045	174	1,219	
Arkansas.....	1,444	558	2,002	321	2,323	
California.....	9,149	12,485	21,634	924	22,558	
Colorado.....	1,547	1,122	2,669	232	2,901	
Connecticut.....	1,647	2,804	4,451	672	5,123	
Delaware ^③	369	303	672	115	787	
Florida.....	2,138	2,512	4,650	580	5,230	
Georgia.....	3,198	1,371	4,569	714	5,283	
Idaho.....	846	225	1,071	128	1,199	
Illinois.....	7,010	11,327	18,337	1,778	20,115	
Indiana.....	4,034	2,904	6,938	520	7,458	
Iowa.....	3,594	1,754	5,348	466	5,814	
Kansas.....	3,226	1,209	4,435	527	4,962	
Kentucky.....	2,562	1,293	3,855	312	4,167	
Louisiana.....	1,805	1,311	3,116	318	3,434	
Maine.....	1,252	395	1,647	151	1,798	
Maryland.....	2,082	1,392	3,474	581	4,055	
Massachusetts ^①	3,343	6,491	9,834	764	10,598	
Michigan.....	6,425	7,546	13,971	814	14,785	
Minnesota.....	3,806	2,696	6,502	269	6,771	
Mississippi ^①	1,652	551	2,203	285	2,488	
Missouri.....	4,042	3,794	7,836	432	8,268	
Montana.....	1,100	221	1,321	104	1,425	
Nebraska.....	2,077	1,027	3,104	270	3,374	
Nevada.....	216	92	308	58	366	
New Hampshire.....	756	109	865	131	996	
New Jersey ^①	3,462	7,717	11,179	1,064	12,243	
New Mexico.....	764	287	1,051	172	1,193	
New York.....	9,011	15,162	24,173	1,913	26,086	
North Carolina.....	3,776	1,618	5,394	578	5,972	
North Dakota.....	887	171	1,058	94	1,152	
Ohio.....	7,168	8,254	15,422	998	16,420	
Oklahoma.....	3,432	1,491	4,923	317	5,240	
Oregon.....	1,714	977	2,691	266	2,957	
Pennsylvania.....	8,439	9,754	18,193	1,648	19,841	
Rhode Island ^①	567	1,008	1,575	373	1,948	
South Carolina.....	2,043	681	2,724	259	2,983	
South Dakota.....	1,049	238	1,287	146	1,433	
Tennessee.....	3,184	1,417	4,601	880	5,481	
Texas.....	10,035	6,558	16,593	463	17,056	
Utah.....	712	610	1,322	161	1,483	
Vermont.....	524	177	701	71	772	
Virginia.....	3,068	1,204	4,272	330	4,602	
Washington.....	2,382	1,743	4,125	320	4,445	
West Virginia.....	2,048	855	2,903	299	3,202	
Wisconsin.....	3,857	2,763	6,620	352	6,972	
Wyoming.....	466	152	618	90	708	
Totals.....	140,663	129,559	270,222	22,627	292,849	

①—Estimate based on road-use studies (36 States), motor-vehicle allocation studies (7 States) and traffic studies (30 States) of State-wide Highway Planning Surveys. Data from at least one of these three services were available from 43 States.

②—In New England States, travel on "rural" roads outside delimited urban compacts.

③—Estimated.

81% of Vehicle Mileage By Passenger Cars

Estimate of Total Annual Travel by Motor Vehicles in the U. S., 1940. ①

(All Data on This Page from Public Roads Administration)

Travel Performed—	Annual Travel In Millions of Vehicle Miles Performed By—			
	Passenger Cars	Trucks	Buses②	All Motor Vehicles
In State of registration:				
On roads in unincorporated areas.....	112,884	26,979	800	140,663
On trans-city connections and local streets of incorporated places.....	106,465	22,348	746	129,559
Total travel in State of registration.....	219,349	49,327	1,546	270,222
Travel in other States.....	19,231	3,351	45	22,627
Total travel in United States...	238,580	52,678	1,591	292,849

①—Estimate based on road use studies (36 States), motor vehicle allocation studies (7 States) and traffic studies (30 States) of State-wide Highway Planning Surveys. Data from at least one of these three sources were available from 43 States.

②—Incomplete data.

58 Billion Ton-Miles Carried by Trucks on Rural Roads

Preliminary estimates of vehicle-miles of travel and ton-miles of load carried on rural roads in the United States in 1940

Vehicle-miles of travel by trucks and combinations (in millions).....	29,199
Private trucks and truck combinations:	
Percent of vehicle-miles.....	76.1
Vehicle-miles (in millions).....	22,217
Percent loaded.....	59.8
Vehicle-miles loaded (in millions).....	13,290
Average carried load (tons).....	2.37
Ton-miles of carried load (in millions).....	31,444
Percent of total ton-miles.....	54.1
For-hire trucks and truck combinations:	
Percent of vehicle-miles.....	23.9
Vehicle-miles (in millions).....	6,982
Percent loaded.....	71.6
Vehicle-miles loaded (in millions).....	4,999
Average carried load (tons).....	5.34
Ton-miles of carried load (in millions).....	26,674
Percent of total ton-miles.....	45.9
Total ton-miles (in millions).....	58,118

USE

Trucks Travel 19% of Rural Vehicle-Miles

Preliminary estimates of vehicle-miles of all travel, vehicle-miles of truck travel and ton-miles of carried load, on rural roads in U. S., 1940

Vehicle-miles of travel by all vehicles (in millions).....	152,751
Percent trucks and truck combinations.....	19.1
Vehicle-miles of travel by trucks and combinations (in millions).....	29,199
Percent loaded.....	62.6
Vehicle-miles of travel by loaded trucks and combinations (in millions).....	18,289
Average carried load (tons).....	3.18
Ton-miles of carried load (in millions).....	58,118

76% of Rural Truck Mileage is

Preliminary estimates of vehicle-miles of travel and truck combinations on rural roads in each of 34 States

(SOURCE: Public Roads Administration)

State	PRIVATE TRUCKS AND TRUCK COMBINATIONS							
	Vehicle-Miles by Trucks and Combinations (Millions)	% of Total	Vehicle Miles			Average Ton-Miles Carried		% of Total Ton-Miles
			(Millions)	Loaded (Millions)	Loaded %	Load (Tons)	Carried Load (Millions)	
Alabama	610	85.7	523	289	55.3	2.50	723	72.7
Arizona	212	77.6	165	90	54.6	2.26	203	44.4
California	1,334	74.7	996	658	66.1	2.60	1,711	39.1
Colorado	384	76.5	294	186	63.3	2.10	391	57.5
Florida	583	94.1	549	247	45.0	3.60	889	89.5
Idaho	251	84.5	212	116	54.9	1.52	176	60.5
Iowa	634	60.2	382	231	60.6	1.90	439	37.7
Kansas	558	65.9	368	206	56.0	2.12	437	40.4
Kentucky	674	73.9	498	310	62.3	2.56	794	63.1
Louisiana	462	76.4	353	187	53.1	2.41	451	60.7
Maryland	552	65.6	362	228	63.1	2.45	559	42.7
Michigan	1,029	80.5	828	541	65.3	2.09	1,131	54.0
Minnesota	754	75.2	567	356	62.8	2.05	730	57.4
Missouri	844	80.6	680	379	55.7	2.60	985	62.0
Montana	252	81.5	205	95	46.4	2.34	222	55.1
Nebraska	442	54.4	240	152	63.3	1.94	295	36.9
Nevada	59	79.7	47	27	56.4	1.79	48	42.9
New Hampshire	188	66.1	124	94	67.9	1.76	148	42.3
New Mexico	275	84.2	232	128	55.3	2.20	282	68.4
North Dakota	146	83.6	122	77	63.0	2.77	213	72.2
Ohio	1,130	72.2	816	446	54.7	3.17	1,414	44.9
Oklahoma	538	73.2	394	236	60.0	2.45	578	58.1
Pennsylvania	1,282	72.0	923	574	62.2	1.89	1,085	49.1
Rhode Island	76	75.2	59	36	60.9	1.72	62	45.8
South Carolina	445	80.9	380	228	63.3	3.11	709	69.5
South Dakota	246	62.7	154	93	60.7	1.83	170	49.6
Tennessee	641	75.4	483	284	58.7	2.36	670	65.9
Texas	3,015	86.1	2,596	1,482	57.1	1.94	2,875	74.8
Utah	156	85.1	133	77	58.0	2.18	168	68.9
Virginia	769	68.7	528	325	61.5	2.30	747	46.3
Washington	429	74.6	320	175	54.6	2.10	368	46.3
West Virginia	434	73.6	319	182	57.1	2.25	410	56.9
Wisconsin	747	68.6	512	350	68.4	1.66	581	40.9
Wyoming	165	69.9	115	60	51.8	2.99	179	52.8
Other States	8,881	76.1	6,758	4,155	61.5	2.55	10,601	54.1
Totals and averages for the U. S.	29,199	76.1	22,217	13,290	59.8	2.37	31,444	54.1

Farm Products Are Large Portion of Truck Freight

Number and percentage of loaded trucks and combinations carrying each general type of commodity, as recorded at 2,676 loadometer stations in 38 States

(SOURCE: Public Roads Administration)

Commodities Carried	Number of Vehicles Recorded	Percent
Products of agriculture	202,334	13.2
Animal products	204,940	13.4
Products of mines	101,720	6.6
Products of forests	76,897	5.1
Manufactures and miscellaneous	818,114	53.2
Mixed freight	131,147	8.5
Total loaded	1,537,192	100.0

e is Traveled by Private Trucks

and ton-miles of load carried by private and for-hire trucks
of 34 States, and totals for the United States, in the year 1940.
(Public Roads Administration)

FOR-HIRE TRUCKS AND TRUCK COMBINATIONS

% of Total	Vehicle Miles		% Loaded	Average Ton-Miles Carried of Carried		% of Total Ton- Miles	Total Ton- Miles (Millions)	State
	(Mil- lions)	Loaded (Millions)		(Tons)	(Millions)			
14.3	87	59	68.0	4.61	272	27.3	995	Alabama
22.4	47	34	72.3	7.47	254	55.6	457	Arizona
29.3	338	268	79.2	9.92	2,680	60.9	4,371	California
23.8	90	68	72.0	4.48	289	42.5	680	Colorado
5.9	34	19	54.6	8.46	104	10.5	993	Florida
15.5	39	29	75.4	3.96	115	39.5	291	Idaho
39.8	252	171	67.9	4.25	727	62.3	1,166	Iowa
34.1	190	126	66.3	5.12	645	59.6	1,082	Kansas
26.1	176	133	75.8	3.49	464	36.9	1,258	Kentucky
23.6	109	72	65.8	4.06	292	39.3	743	Louisiana
34.4	190	138	72.4	5.44	751	57.3	1,310	Maryland
19.5	201	141	70.1	6.83	963	46.0	2,094	Michigan
24.8	187	143	76.7	3.79	542	42.6	1,272	Minnesota
19.4	164	124	75.7	4.87	604	38.0	1,589	Missouri
18.5	47	29	61.5	6.24	181	44.9	403	Montana
45.6	202	138	68.3	3.68	505	63.1	800	Nebraska
20.3	12	8	66.7	8.00	64	57.1	112	Nevada
33.9	64	49	76.3	4.12	202	57.7	350	New Hampshire
15.8	43	31	72.5	4.19	130	31.6	412	New Mexico
16.4	24	18	73.6	4.56	82	27.8	295	North Dakota
27.8	314	227	72.3	7.65	1,736	55.1	3,150	Ohio
26.8	144	100	69.5	4.17	417	41.9	995	Oklahoma
28.0	359	241	67.1	4.66	1,124	50.9	2,209	Pennsylvania
24.8	19	13	70.1	5.00	65	51.2	127	Rhode Island
19.1	85	57	67.6	5.72	326	31.5	1,035	South Carolina
37.3	62	40	65.2	2.88	173	50.4	343	South Dakota
24.6	158	118	74.5	2.93	346	34.1	1,016	Tennessee
13.9	419	289	69.0	3.35	968	25.2	3,843	Texas
14.9	23	18	78.3	4.22	76	31.1	244	Utah
31.3	241	164	68.0	5.29	867	53.7	1,614	Virginia
25.4	109	66	60.6	6.47	427	53.7	798	Washington
26.4	115	79	68.1	4.13	310	43.1	720	West Virginia
31.4	235	182	77.4	4.61	839	59.1	1,420	Wisconsin
30.1	50	31	62.0	5.16	160	47.2	338	Wyoming
63.9	2,123	1,563	73.6	5.75	8,994	48.9	19,595	Other States
23.9	6,982	4,999	7.16	5.34	26,674	45.9	58,118	Totals and averages for the U. S.

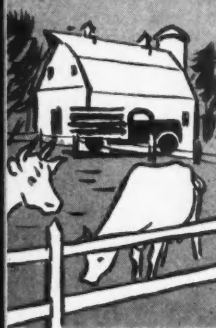
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Average Truck Weight by Type of Commodity Carried

Average empty weight, loaded weight and carried load of trucks and combinations by types of commodities being transported, as recorded at 2,586 loadometer stations in 36 States

(SOURCE: Public Roads Administration)

Commodities Carried	Average Empty Weight (Pounds)	Average Loaded Weight (Pounds)	Average Carried Load (Pounds)
Products of agriculture.....	6,222	13,627	7,405
Animal products.....	6,422	11,595	5,174
Products of mines.....	6,214	14,748	8,534
Products of forests.....	5,967	14,177	8,210
Manufactures and miscellaneous.....	7,398	14,027	6,629
Mixed freight.....	9,293	17,535	8,242
All commodities.....	7,106	14,060	6,954



Motor Trucks Haul Large Share

(U. S. Department of Agriculture)



Drive-Ins and Per Cent of Total Receipts All Important Public Stockyards^①

Year	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked	Drive-Ins (000)	Total Receipts (000)	Per Cent Trucked
Cattle				Sheep and Lambs		
1935.....	7,645	14,986	51.0	6,619	25,567	25.9
1936.....	8,615	15,711	54.8	6,486	24,652	26.3
1937.....	8,002	15,135	52.9	6,640	24,979	26.6
1938.....	8,245	14,076	58.6	7,024	25,598	27.4
1939.....	8,587	13,896	61.8	6,939	23,817	29.1
1940.....	9,241	14,077	65.6	7,247	22,754	31.8
Calves				Horses and Mules		
1935.....	3,621	6,618	54.7	170	537	31.7
1936.....	3,953	6,870	57.5	183	511	35.8
1937.....	4,194	7,286	57.6	169	443	38.2
1938.....	3,817	6,563	58.2	149	361	41.2
1939.....	3,982	6,560	60.7	143	284	50.4
1940.....	4,033	6,282	64.2	122	236	51.9
Hogs				Total Livestock		
1935.....	11,940	19,562	61.0	29,994	67,270	44.6
1936.....	16,993	26,399	64.4	36,230	74,343	48.9
1937.....	14,931	22,666	65.9	33,936	70,509	48.1
1938.....	16,313	24,801	65.8	35,549	71,399	49.8
1939.....	19,085	27,974	68.3	38,741	72,532	53.4
1940.....	23,553	34,556	68.2	44,196	77,904	56.7

①—Number of markets varies from 62 prior to January, 1936 to 68 in 1938.

USE

Highways Serve Distant Markets

(Truck Shipments, In Carlot Equivalents, From Florida, 1939-40 Season)

Destination	Vegetables and Non-Citrus		Destination	Vegetables and Non-Citrus	
	Citrus Fruits	Fruits		Citrus Fruits	Fruits
Alabama.....	1,073	1,123	New York.....	416	4,920
Dist. of Columbia.....	977	1,040	North Carolina.....	2,002	2,241
Georgia.....	3,047	3,091	Ohio.....	223	305
Illinois.....	103	466	Pennsylvania.....	430	2,341
Indiana.....	164	300	South Carolina.....	1,248	1,146
Kentucky.....	124	251	Tennessee.....	690	821
Louisiana.....	31	284	Texas.....	72	225
Maryland.....	784	1,028	Virginia.....	1,636	1,496
Massachusetts.....	11	171	West Virginia.....	243	270
Michigan.....	163	193	Other*.....	772	551
Mississippi.....	144	132	Total Truck Shipments.....	14,515	22,918
Missouri.....	140	343	Truck Shipments as		
New Jersey.....	52	110	Percent of Total.....	26%	38%

*Includes shipments to Arizona, Arkansas, California, Canada, Colorado, Connecticut, Delaware, Idaho, Iowa, Kansas, Maine, Mexico, Minnesota, Nebraska, New Hampshire, New Mexico, Oklahoma, Oregon, Rhode Island, South Dakota, Vermont, and Wisconsin.

(SOURCE: Florida State Department of Agriculture)

are of Farm Products to Market



Butter 28%

RECEIPTS (GROSS LBS.): NEW YORK,
CHICAGO, PHILADELPHIA AND BOSTON

Year	Truck ^①	Rail ^②	Per Cent Trucked
1935.....	107,429,000	526,083,000	17.0
1936.....	111,592,000	514,421,000	17.8
1937.....	133,778,000	483,530,000	21.7
1938.....	181,102,000	583,333,000	23.7
1939.....	192,983,000	508,100,000	27.6
1940.....	187,391,000	480,200,000	28.1

Eggs 45%

RECEIPTS (CASES): NEW YORK,
CHICAGO, PHILADELPHIA AND BOSTON

Year	Truck ^①	Rail ^②	Per Cent Trucked
1935.....	4,001,000	8,518,000	32.0
1936.....	4,354,000	8,965,000	32.7
1937.....	4,970,000	8,767,000	36.7
1938.....	3,807,000	8,996,000	30.0
1939.....	5,422,000	8,301,000	39.5
1940.....	6,423,000	7,800,000	45.2

Live Poultry 69%

RECEIPTS: NEW YORK CITY^③

Year	Truck ^①	Rail ^②	Per Cent Trucked
1934.....	2,428,000	7,753,000	23.8
1935.....	3,157,000	5,525,000	36.4
1936.....	4,747,000	4,403,000	51.9
1937.....	5,624,000	3,860,000	59.3
1938.....	5,845,000	3,114,000	65.2
1939.....	4,985,000	2,652,000	65.3
1940.....	5,435,000	2,475,000	68.7

Truck Receipts of Fruits and Vegetables at 12 Important Markets^③—1939

Market	Truck Receipts ^①	Car Lots— Rail and Boat	Per Cent Trucked
Atlanta.....	13,129	3,290	80.0
Boston.....	14,033	40,510	25.7
Chicago.....	11,815	63,375	15.7
Kansas City.....	3,768	10,035	27.3
Los Angeles.....	69,062	9,320	88.1
Milwaukee.....	1,145	8,870	11.4
New Orleans.....	4,883	5,885	45.5
New York.....	80,503	118,010	40.6
Philadelphia.....	36,233	36,303	90.0
Pittsburgh.....	4,174	24,120	14.8
St. Louis.....	4,557	17,536	20.6
San Francisco.....	17,578	5,392	76.5
Total.....	260,880	342,616	43.2

①—Truck receipts do not include all arrivals as it is impossible to obtain reports from all receivers.

②—Also includes boat receipts of fruit and vegetable freight.

③—Truck receipts in car-lot equivalents.

Railroad Use of Trucks Rapidly Expanding

(Exclusive of trucks owned by Railway Express Agency—13,814 in 1939.)

Year	Terminal Transfer Service	Intercity Service	Store Door Delivery Service	Total No. in Service	Percent Increase Yearly
1925.....	800	100	0	900	.....
1926.....	1,450	150	0	1,600	78%
1927.....	2,900	400	0	3,300	106%
1928.....	4,350	550	0	4,900	48%
1929.....	4,500	750	650	5,900	20%
1930.....	4,750	850	1,400	7,000	19%
1931.....	5,000	950	4,050	10,000	43%
1932.....	5,500	1,000	5,500	12,000	20%
1933.....	6,750	1,150	15,100	23,000	92%
1934.....	7,175	1,275	16,857	25,307	10%
1935.....	8,100	3,402	32,465	43,967	73%
1936.....	8,304	3,745	33,022	45,071	3%
1937.....	8,419	5,102	39,641	53,162	18%
1938.....	9,111	5,890	48,780	63,781	20%
1939.....	10,314	6,400	48,804	65,518	3%
1940.....	12,891	8,111	50,704	71,706	9%

(Figures from Simmons-Boardman Publishing Co.)

87% of Motor Trucks Are Privately Owned

SOURCE: For-Hire trucks estimated by American Trucking Associations and the Bureau of Motor Carriers, Interstate Commerce Commission. Private trucks estimated by Automobile Manufacturers Association.

	Number of Trucks	Per Cent
For Hire (Interstate).....	200,000	4.4
For Hire (Intrastate: Local and Intercity).....	400,000	8.8
Total for Hire.....	600,000	13.2
Privately Owned and Operated (Including Farm Trucks).....	3,969,873	86.8
Total Motor Trucks Registered, 1940.....	4,569,873*	100.0

*Exclusive of buses included with truck registrations in some states.

Time for Expansion

"Transportation is not only a necessary element of our local security, but is of ever-growing importance in our National Defense. It is not state-wide, but nation-wide. The time is not appropriate for reduction of our transportation facilities, whether for commerce or defense, for the two are inseparably linked. Rather, it is a time for expansion, and well may it be so at a time when we know not what the morrow may bring or require."—George A. Wilson, Governor of Iowa, message vetoing a bill to restrict motor truck use on Iowa highways.

World's Road Mileage Gains 27% Since 1930

(SOURCE: Automotive-Aeronautics Trade Division, Department of Commerce, as of January 1st, 1930 and 1940)

Countries	ROAD MILEAGE			WORLD REGISTRATIONS		
	1930	1940	% Incr.	1930	1940	% Incr.
Argentina.....	131,697	253,115	92.2	366,324	273,500	-25.3
Brazil.....	75,497	129,057	70.9	199,570	181,000	-9.3
Canada.....	390,060	599,040	53.6	1,224,098	1,420,924	16.1
Chile.....	22,093*	22,613	2.3	36,245	48,954	35.1
Colombia.....	14,637*	14,336	-2.1	13,750	33,143	141.0
Mexico.....	56,923*	56,923	....	80,800	105,420	30.5
Peru.....	12,002	16,559	38.0	14,371	22,216	54.6
United States.....	3,024,233	3,065,000	1.3	26,697,398	31,009,870	16.2
Venezuela.....	2,211	5,882	166.0	18,000	33,024	83.5
Other America.....	54,683*	80,945	48.1	164,363	222,777	35.5
Total America...	3,784,016	4,243,470	12.1	28,814,919	33,350,828	15.7
Belgium.....	18,894	20,244	7.1	158,986	225,440	41.8
Denmark.....	31,703	32,212	1.6	113,820	164,350	44.4
Eire (Ireland).....	46,462	48,550	4.5	48,400	67,110	38.7
Finland.....	29,337	39,826	35.8	36,234	53,556	47.8
France.....	393,761*	393,761	....	1,459,650	2,398,500	64.3
Germany.....	236,731	263,267	11.2	679,300	1,959,200	188.4
Italy.....	114,129	174,938	53.3	291,587	498,500	71.0
Netherlands.....	15,534	16,031	3.2	118,735	156,150	31.5
Northern Ireland.....	12,992	13,008	0.1	27,035	54,196	100.5
Norway.....	23,343	26,155	12.0	46,473	99,777	114.7
Portugal.....	13,884	19,476	40.3	30,557	49,320	61.4
U. S. S. R.....	776,712	1,682,000	116.6	57,640	801,000	1289.7
Spain.....	54,114	70,760	30.8	185,250	70,000	-62.2
Sweden.....	43,778*	54,707	25.0	145,273	221,667	52.6
Switzerland.....	9,233	10,291	11.5	81,045	76,400	-5.7
United Kingdom.....	178,731*	180,527	1.0	1,502,237	2,429,580	61.7
Other Europe.....	382,215*	530,251	38.7	237,715	256,427	7.9
Total Europe...	2,381,553	3,576,004	50.2	5,219,937	9,581,173	83.5
Algeria.....	21,753	43,239	98.8	50,250	35,500	-29.4
Egypt.....	3,965	6,838	72.5	30,136	33,787	12.1
Morocco French.....	2,516	4,842	92.4	16,065	37,750	135.0
Union of So. Africa.....	85,598	92,143	7.6	149,400	370,641	148.1
Other Africa.....	190,650*	319,699	67.7	109,285*	197,743	80.9
Total Africa...	304,482	466,761	53.3	355,136	675,421	90.1
China.....	34,810	61,430	76.5	36,771	67,193	82.7
Japan.....	659,215	591,766	-10.2	95,719	185,920	94.2
India and Burma.....	225,280	331,269	47.0	174,450	133,028	-23.7
Malaya.....	7,146	7,873	10.2	41,652	45,061	8.2
Other Asia.....	148,305*	222,013	49.7	227,349*	281,340	23.7
Total Asia.....	1,074,756	1,214,351	13.0	575,941	712,542	23.7
Australia.....	329,662	488,749	48.3	563,657	837,164	48.5
Hawaii.....	1,717	2,040	18.8	47,846	66,767	39.5
New Zealand.....	48,433	87,760	81.2	189,615	276,145	45.6
Other.....	2,970*	5,182	74.5	4,240*	6,000	41.5
Total Australia and Oceania.....	382,782	583,731	52.5	805,358	1,186,076	47.3
World Total.....	7,927,589	10,084,317	27.2	35,771,291	45,506,040	27.2

*Estimated by Automobile Manufacturers Association.

NOTE:—No attempt has been made to change the registration data for some countries at war or under occupation.



86% of Primary and Secondary R

Existing Mileage on Primary Systems of
(Preliminary Statement, compiled for Calendar Year, 1939, from Re

SURFACED MILEAGE CLASSIFIED BY TYPES

State	Grand Total	Total	Soil Surfaced	Gravel or Stone	Low-Type Bitu- minous	High-Type Bitu- minous
Alabama.....	6,321	4,254	341	115	2,740	159
Arizona.....	3,586	2,768	7	517	2,027	90
Arkansas.....	8,751	7,807	7	5,410	799	525
California.....	4,040	4,039	69	.....	1,816	905
Colorado.....	3,512	3,422	.....	615	2,322	15
Connecticut.....	2,620	2,536	.....	.....	1,328	570
Delaware.....	1,921	1,921	159	270	227	452
Florida.....	6,677	6,111	22	146	4,602	498
Georgia.....	11,071	6,962	658	969	2,458	911
Idaho.....	4,885	3,808	44	1,273	2,230	141
Illinois.....	10,073	10,070	58	.....	127	8
Indiana.....	10,121	9,680	138	898	3,559	945
Iowa.....	8,542	8,451	.....	2,754	587	.....
Kansas.....	9,349	8,567	.....	3,010	3,945	171
Kentucky.....	8,903	8,589	3	3,150	3,533	662
Louisiana.....	3,794	3,772	.....	813	10	930
Maine.....	2,748	2,639	.....	102	1,822	487
Maryland.....	4,053	4,053	39	53	1,172	1,112
Massachusetts.....	1,878	1,878	.....	.....	137	1,354
Michigan.....	8,355	7,810	.....	2,926	918	.....
Minnesota.....	10,948	10,522	241	3,480	4,047	178
Mississippi.....	3,497	3,481	11	1,404	362	201
Missouri.....	8,292	8,213	21	2,074	2,203	128
Montana.....	4,720	4,471	.....	378	4,065	3
Nebraska.....	8,171	7,724	.....	5,437	1,201	22
Nevada.....	2,683	2,428	.....	132	2,246	39
New Hampshire.....	1,426	1,426	.....	.....	973	196
New Jersey.....	1,235	1,235	.....	7	25	118
New Mexico.....	11,641	5,119	.....	2,196	2,693	156
New York.....	13,991	12,652	.....	.....	2,243	3,348
North Carolina.....	10,819	10,300	1,395	397	4,522	1,167
North Dakota.....	7,190	6,099	.....	4,980	1,096	1
Ohio.....	16,223	16,068	520	2,976	5,735	2,648
Oklahoma.....	8,034	7,099	103	2,566	1,612	769
Oregon.....	4,394	4,254	22	685	2,294	1,003
Pennsylvania.....	12,941	12,205	16	32	4,394	2,189
Rhode Island.....	686	686	.....	.....	222	273
South Carolina.....	6,914	5,715	639	5	2,844	391
South Dakota.....	5,851	4,932	.....	3,217	1,447	4
Tennessee.....	6,571	6,938	.....	2,376	1,799	1,051
Texas.....	21,703	17,790	.....	708	9,382	2,589
Utah.....	4,512	3,713	.....	1,870	1,487	143
Vermont.....	1,700	1,700	.....	613	723	82
Virginia.....	9,336	8,398	549	.....	4,095	3,078
Washington.....	3,734	3,634	.....	205	547	1,815
West Virginia.....	4,416	4,033	.....	513	1,520	993
Wisconsin.....	9,192	9,174	.....	103	4,921	219
Wyoming.....	3,688	3,484	.....	357	3,093	9
Total Primary.....	325,990	292,612	4,997	59,757	108,270	33,204

SECONDARY STATE HIGHWAYS

California.....	8,580	8,129	2,575	30	3,025	1,421
Colorado.....	9,368	9,309	19	3,757	721	.....
Louisiana.....	11,115	9,667	.....	9,211	.....	338
Maine.....	5,867	4,736	.....	1,832	2,886	12
Mississippi.....	2,139	2,130	.....	2,030	36	.....
Missouri.....	7,009	6,792	95	6,252	230	44
Montana.....	402	384	.....	219	164	.....
Nebraska.....	199	191	.....	188	.....	.....
Nevada.....	2,333	458	.....	286	202	.....
New Hampshire.....	2,059	.....	.....	153	1,870	28
Oregon.....	2,239	1,990	65	1,306	387	200
Pennsylvania.....	24,802	14,483	52	1,106	8,087	4,647
Washington.....	2,220	2,083	10	1,209	306	197
Total Secondary.....	79,340	57,611	2,816	27,551	17,914	6,888

①—Includes 43 miles of bridges.

②—Includes 45 miles of bridges.

Rural State Highways Are Surfaced

of Rural State Highways by Types

Reports of State Authorities by U. S. Public Roads Administration)

SURFACED MILEAGE CLASSIFIED BY TYPES

Portland Cement Concrete	Brick and Block	Dual- Type
899	.....	.....
105	.....	22
1,072	.....	1
1,145	.....	104①
470	.....	.....
633	.....	5
807	.....	6
617	118	108
1,925	41	.....
61	.....	.....
9,619	255	3
4,060	67	5
5,082	28	.....
1,271	154	16
1,179	2	.....
2,013	.....	6
225	1	2
1,652	.....	25
347	5	55
3,481	3	7
2,590	2	4
1,481	12	.....
3,499	6	262
25	.....	.....
1,011	47	6
8	.....	4
257	.....	.....
1,062	1	22
74	.....	.....
6,833	152	76
2,797	3	19
22	.....	.....
2,781	1,174	234
2,009	37	3
250	.....	.....
5,278	116	180
171	.....	20
1,825	.....	11
264	.....	.....
1,701	11	.....
5,043	54	14
189	.....	24
282	.....	.....
601	.....	75
1,050	14	3
943	64	.....
3,919	1	11
7	.....	18
82,645	2,368	1,371

NONSURFACED MILEAGE

Primi- tive	Unim- proved	Graded and Drained
.....	.....	2,067
.....	203	595
83	279	582
.....	43	1
.....	.....	47
.....	.....	84
.....
.....	.....	562
.....	3,858	451
157	345	374
.....	.....	5
.....	399	62
.....	48	43
.....	747	35
.....	96	218
.....	.....	22
.....	109	.....
.....
.....	407	138
36	.....	390
.....	16	16
.....	47	79
.....	.....	249
.....	30	417
.....	229	25
.....
1,133	2,009	3,380
.....	1,260	79
.....	187	332
.....	.....	651
.....	57	98
.....	297	638
.....	.....	140
.....	.....	736
.....	247	934
.....	.....	913
.....	.....	33
.....
.....	2,013	1,900
22	314	563
.....
.....	869	69
.....	.....	100
.....	219	164
.....	.....	18
.....	121	83
1,499	14,900	17,019

Total	State
2,067	Alabama
758	Arizona
944	Arkansas
1	California
90	Colorado
84	Connecticut
.....	Delaware
566	Florida
4,109	Georgia
876	Idaho
5	Illinois
461	Indiana
91	Iowa
782	Kansas
314	Kentucky
22	Louisiana
109	Maine
.....	Maryland
.....	Massachusetts
545	Michigan
426	Minnesota
16	Mississippi
79	Missouri
249	Montana
447	Nebraska
254	Nevada
.....	New Hampshire
.....	New Jersey
6,522	New Mexico
1,339	New York
519	North Carolina
1,091	North Dakota
155	Ohio
935	Oklahoma
140	Oregon
736	Pennsylvania
.....	Rhode Island
1,199	South Carolina
919	South Dakota
33	Tennessee
3,913	Texas
899	Utah
.....	Vermont
938	Virginia
100	Washington
383	West Virginia
18	Wisconsin
204	Wyoming
33,378	Total Primary

SECONDARY STATE HIGHWAYS

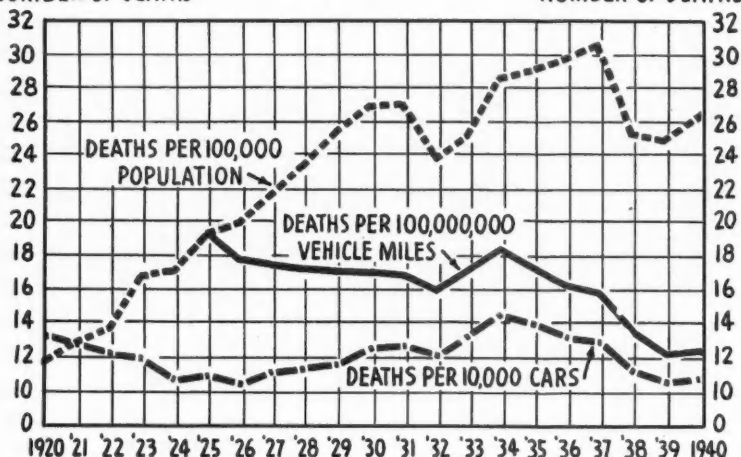
Primi- tive	Unim- proved	Graded and Drained
.....	.....	461
.....	2,069	1,683
.....	837	2,611
.....	1,131	.....
.....	9	.....
.....	.....	217
.....	.....	18
.....	.....	8
311	1,422	142
.....
.....	30	219
.....	.....	10,319
.....	21	116
416	5,519	15,794

Total	State
461	California
3,857	Colorado
3,448	Louisiana
1,131	Maine
9	Mississippi
217	Missouri
18	Montana
8	Nebraska
1,875	Nevada
.....	New Hampshire
249	Oregon
10,319	Pennsylvania
137	Washington
21,729	Total Secondary

Trends In U. S. Traffic Fatality Rate

NUMBER OF DEATHS

NUMBER OF DEATHS



Death Rate on Mileage Basis 30% Below 1930

(SOURCE: "Accident Facts" by the National Safety Council)

DEATHS FROM COLLISION WITH

TOTAL DEATH RATES

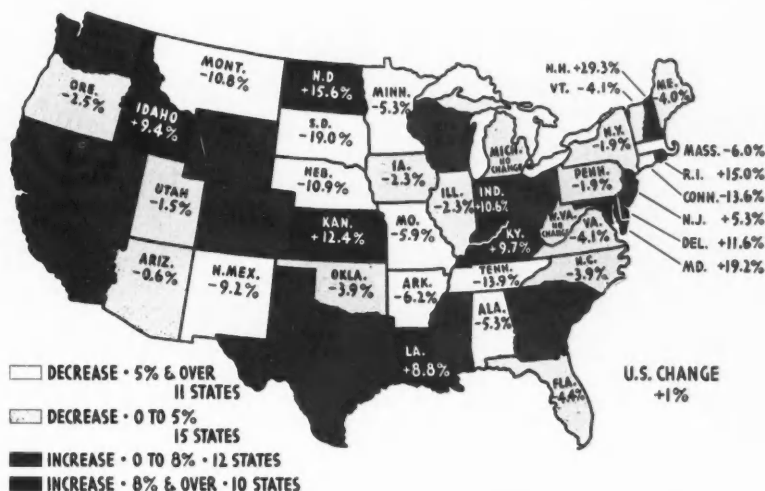
	ALL DEATHS	Pedestrians	Other Motor Vehicles	Railroad Trains	Street Cars	Bicycles and Horse-drawn Vehicles	Fixed Objects	Deaths from Non-Collision Accidents	Per 100,000 Population	Per 10,000 Mot. Vehicles	Per 100,000,000 Vehicle Miles
1927.....	25,796	10,820	3,430	1,832	520	820	500	7,870	21.8	11.1	17.7
1928.....	27,996	11,420	4,310	2,142	569	950	540	8,070	23.3	11.4	17.4
1929.....	31,215	12,250	5,400	2,046	530	990	620	9,380	25.7	11.7	17.3
1930.....	32,929	12,900	5,880	1,830	481	1,150	720	9,970	26.7	12.4	17.4
1931.....	33,675	13,370	6,820	1,714	435	900	870	9,570	27.1	13.0	17.0
1932.....	29,451	11,490	6,070	1,522	316	750	800	8,900	23.6	12.2	16.1
1933.....	31,363	12,840	6,470	1,437	318	710	900	8,680	24.9	13.2	17.1
1934.....	36,101	14,480	8,110	1,457	332	860	1,040	9,820	28.5	14.4	18.4
1935.....	36,369	14,350	8,750	1,587	253	700	1,010	9,720	28.5	13.9	17.4
1936.....	38,089	15,250	9,500	1,697	269	900	1,080	9,410	29.7	13.5	16.4
1937.....	39,643	15,500	10,320	1,810	264	900	1,160	9,690	30.7	13.3	15.9
1938.....	32,582	12,680	8,780	1,469	165	890	990	7,590	25.0	11.1	12.8
1939.....	32,396	12,200	8,600	1,329	150	900	1,050	8,160	24.7	10.6	12.0
1940 (est.)	34,500	12,500	9,950	1,750	150	900	1,150	8,100	26.2	10.8	12.1

Percentage Changes

1930 to 1940	+5%	-3%	+69%	-4%	-69%	-22%	+60%	-19%	-2%	-13%	-30%
1939 to 1940	+7%	+2%	+16%	+32%	0	0	+10%	-1%	+6%	+2%	+1%

SOURCE: U. S. Census Bureau for total deaths and deaths from collisions with railroad trains and electric cars, through 1939. All other death figures are National Safety Council approximations. U. S. Public Roads Administration for motor vehicle registration and for gasoline consumption, used for estimating vehicle mileage.

1940 Traffic Fatality Rates By States



Connecticut Wins State Safety Award

Kansas City, Mo. and Dallas, Texas, Share City Honors

All 48 states and 1,281 cities participated in the 1940 National Traffic Safety Contest conducted by the National Safety Council. States were grouped geographically and cities by population.

Winners in the State Contest were:

DIVISION	FIRST	SECOND	HONORABLE MENTION
Eastern	Connecticut*	Massachusetts	
Southern	Oklahoma		
Midwestern	Minnesota	Nebraska	South Dakota
Western	Oregon		Montana

*Also National Grand Award winner.

Winners in the Inter-City Contest were:

POPULATION GROUP	FIRST	SECOND	THIRD
Group I (over 500,000)	Washington, D. C.		
Group II (250,000—500,000)	Kansas City, Mo. + Dallas, Texas +		Minneapolis, Minn.
Group III (100,000—250,000)	Chattanooga, Tenn.	Hartford, Conn.	Ft. Wayne, Ind.
Group IV (50,000—100,000)	Lakewood, Ohio	Oak Park, Ill.	Davenport, Iowa
Group V (25,000—50,000)	Watertown, N. Y.	Central Falls, R.I.	Fond du Lac, Wis.
Group VI (10,000—25,000)	LaGrange, Ill.	Aberdeen, S. D.	Ames, Iowa

+Also grand prize winners for cities of all sizes.

Motor Transport Employment in All States 6,700,000 Employed, Directly or Indirectly, in U. S.

State	Motor Vehicle, Parts and Tire Manufacturing, Petroleum Refining ①	Sales and Servicing ②	Federal and State Roads ③	Truck Drivers ④	Bus Drivers ⑤	Total
Alabama.....	1,603	17,299	4,387	47,400	2,294	72,983
Arizona.....	10	5,840	1,442	20,400	532	28,224
Arkansas.....	905	12,917	2,508	54,600	1,344	72,274
California.....	25,216	101,618	7,281	290,200	6,868	431,183
Colorado.....	438	16,425	1,874	27,100	1,315	47,152
Connecticut.....	3,035	18,109	3,967	75,600	2,489	103,200
Delaware.....	42	3,043	887	9,100	253	13,325
Florida.....	111	23,475	5,357	71,700	1,931	102,544
Georgia.....	2,208	23,345	9,115	66,800	2,236	101,704
Idaho.....	76	6,212	1,461	20,800	471	29,200
Illinois.....	18,461	76,587	8,121	198,300	4,168	305,637
Indiana.....	50,051	38,709	6,715	118,100	5,606	219,181
Iowa.....	694	32,765	3,968	60,400	2,143	99,970
Kansas.....	4,120	25,350	4,051	63,500	1,071	98,092
Kentucky.....	2,274	17,688	5,696	67,900	2,118	95,676
Louisiana.....	5,800	17,933	3,952	74,600	2,486	104,771
Maine.....	10	9,063	5,029	39,500	685	50,287
Maryland.....	4,020	16,988	2,775	48,100	1,465	73,348
Massachusetts.....	7,111	39,195	4,901	111,800	8,520	169,527
Michigan.....	300,049	58,310	7,924	136,000	6,295	508,578
Minnesota.....	1,678	32,285	5,093	90,000	2,399	131,635
Mississippi.....	331	12,005	7,075	34,400	2,654	56,465
Missouri.....	9,645	44,282	6,437	130,500	4,429	195,293
Montana.....	890	7,123	1,787	22,900	508	33,208
Nebraska.....	305	17,497	3,080	28,200	1,052	50,134
Nevada.....	1,890	790	8,100	252	10,992	10,992
New Hampshire.....	12	5,340	3,314	23,200	681	32,517
New Jersey.....	23,490	39,008	3,522	135,100	10,901	216,021
New Mexico.....	179	5,685	2,188	20,400	720	29,142
New York.....	27,010	106,510	8,727	316,900	18,173	477,320
North Carolina.....	472	29,320	9,628	64,800	3,512	107,732
North Dakota.....	711	7,112	1,172	14,400	428	23,112
Ohio.....	88,657	71,837	9,990	167,900	7,509	345,893
Oklahoma.....	5,310	26,743	3,980	72,200	2,111	110,344
Oregon.....	272	15,258	3,024	42,900	1,442	62,896
Pennsylvania.....	36,962	83,385	22,627	236,400	9,722	389,296
Rhode Island.....	571	6,467	735	21,600	619	29,996
South Carolina.....	186	13,897	5,082	38,500	1,171	58,836
South Dakota.....	24	7,920	2,120	12,900	385	23,349
Tennessee.....	3,544	20,281	4,032	58,300	2,305	88,462
Texas.....	27,375	81,987	11,574	284,800	6,953	412,689
Utah.....	317	6,588	1,392	19,100	626	28,003
Vermont.....	10	4,413	1,221	4,500	344	10,488
Virginia.....	1,246	23,235	11,830	58,200	2,795	97,306
Washington.....	590	22,555	3,092	70,200	2,779	99,216
West Virginia.....	479	12,333	5,648	47,900	1,858	68,218
Wisconsin.....	21,746	30,290	4,187	85,600	2,325	144,148
Wyoming.....	1,300	3,861	916	11,500	424	18,001
District of Columbia...	69	8,264	1,322	15,900	1,468	27,063
Total.....	679,124	1,310,724*	233,130	3,739,200	142,825	6,105,003*

Total, including raw material workers and others not segregated by states..... ⑥6,700,000

①—From 1939 Census of Manufactures, latest available.

②—From 1939 Census of Business.

③—Average monthly employment from U.S. Public Roads Administration. Employment on township and county roads is not available.

④—Estimated by allowing 1.14 full-time drivers (the national average) per truck registered, exclusive of farm trucks.

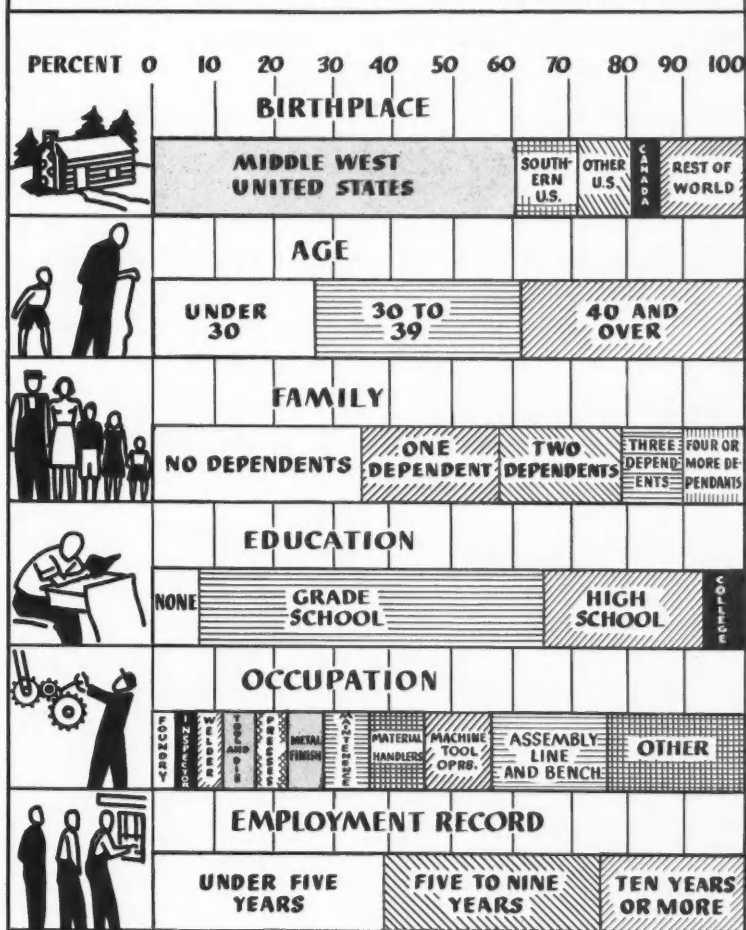
⑤—Estimated by allowing two drivers per revenue bus and one-half driver per school bus, according to the Bus Census made by "Bus Transportation."

⑥—Includes employees producing raw materials, taxi-drivers and chauffeurs, and automobile insurance and finance company employees.

*Includes 552 employees which were not segregated by states.

EMPLOYMENT

CHARACTERISTICS OF AUTOMOBILE WORKERS IN U. S.



← EMPLOYMENT

Data are from surveys of individual automobile and body factory workers, male only, made by Automobile Manufacturers Association in plants of members, and are for latest period available in each case.

Notes: Education: Represents formal education completed. A person who did not finish the eighth grade is counted as "none."

Occupation: "Other", in addition to occupational groups not listed above, includes some men who have worked in one of the occupational groups shown but who were classified in the miscellaneous group because of unusual occupational terminology.

U. S. Automotive Sales and S

11.9% OF TOTAL PAYROLL IN RE

(Figures from "Census of Business, 193

Kinds of Business	No. Etab-lishments	Active Proptrs. (Full and of Unin- corporated Businesses for Year)	No. of Empl.y.① (Average for Year)	Payroll (Add 000)①			Sales
				Total	Full-Time	Part-Time	(Add 000)
Wholesale Trade Service and Limited Function							
Automotive							
Auto. (new and used)	572	218	17,391	\$32,164	\$31,992	\$172	\$1,324,214
Trucks and Tractors	579	415	4,005	6,577	6,457	120	70,024
Auto. Acc. and Equip.	2,860	1,851	22,261	33,156	32,925	231	259,846
Auto. Parts.....	3,318	2,245	24,808	37,374	36,939	435	256,748
Tires and Tubes.....	635	507	3,539	5,865	5,808	57	84,454
Mach.-Equip.-Supplies Garage and Fill.							
Stat. Equip.....	169	127	854	1,339	1,314	25	9,877
Road Building.....	251	95	3,420	7,259	7,151	108	72,613
Mfrs' Sales Br. (with stks.)							
Automotive							
Auto., Trucks, and Tractors.....	396	1	11,233	22,623	22,350	273	437,311
Auto. Acces., Equip. and Parts.....	249	11	3,099	5,291	5,271	20	52,717
Tires and Tubes.....	292	.....	8,085	18,066	17,927	139	235,681
Mach.-Equip.-Supplies Garage and Fill.							
Sta. Equip.....	62	7	541	1,060	1,055	5	9,291
Roadbuilding.....	20	.....	170	309	303	6	4,385
Mfrs'. Sales Offices (with-out stocks)							
Automotive							
Auto. Acc. and Equip.	18	.....	156	481	481	.....	18,048
Automotive Parts...	30	.....	605	1,530	1,530	.....	39,474
All Other.....	11	.....	109	297	295	2	7,847
Mach.-Equip.-Supplies Garage and Fill.							
Stat. Equip.....	19	.....	50	94	94	.....	5,005
Road Building.....	27	.....	203	528	520	8	6,938
Agents and Brokers							
Automotive							
Auto. (new and used)	12	9	105	149	122	27	13,765
Trucks and Tractors	19	14	59	133	133	.....	3,200
Auto. Acc. and Equip.	179	160	404	946	915	31	64,522
Automotive Parts...	106	92	248	583	569	14	38,704
Tires and Tubes.....	15	14	30	45	41	4	1,235
Mach.-Equip.-Supplies Garage and Fill.							
Sta. Equip.....	43	35	108	227	222	5	4,213
Road Building.....	50	45	118	242	235	7	8,329
Total Wholesale—Auto..	9,932	5,846	101,601	176,338	174,649	1,689	3,028,441
Petroleum Bulk St'ys and Term's	30,825	23,061	99,236	156,366	152,399	3,967	3,807,908
Total Wholesale—Automotive, incl. Pet. Bulk St'ys and Term's	40,757	28,907	200,837	332,704	327,048	5,656	6,836,349
Total Wholesale—All Business	200,573	133,698	1,562,121	2,625,203	2,564,152	61,051	55,265,640
Automotive—Percent of Total Excl. Petroleum Bulk St'ys and Ter's.							
Incl. Petroleum Bulk Stations and Ter's..	4.9%	4.4%	6.5%	6.7%	6.8%	2.8%	5.5%
	20.3%	21.6%	12.9%	12.7%	12.8%	9.3%	12.4%

EMPLOYMENT

Service Employ 1,310,000

IN RETAIL AND WHOLESALE BUSINESS

1939' by U. S. Bureau of the Census)

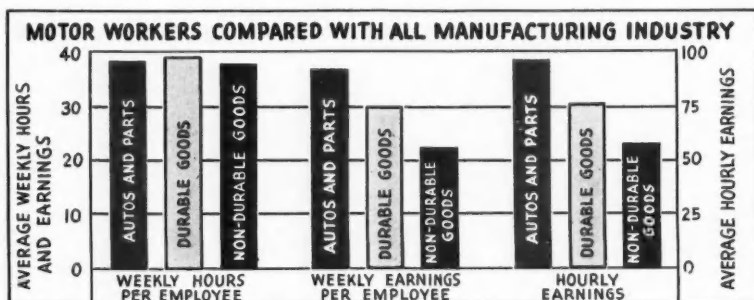
Kinds of Business	No. Estab-lishments	Active Propts. (Full and of Unin- corporated Businesses)	No. of Employ. (Full and Part Time) (Average for Year)	Payroll (Add 000)①			Sales
				Total	Full-Time	Part-Time	(Add 000)
Retail Trade							
Automotive Group							
Motor Vehicle D/T's (new and trade-in)...	31,511	27,318	287,270	\$378,615	\$374,338	\$4,277	\$4,290,064
Motor Vehicle—Farm Impl. D/T's.....	1,170	1,239	6,638	7,259	7,090	169	88,607
Motor Vehicle D/T's (retail-wholesale)...	928	512	22,794	34,714	34,505	209	428,922
Used-Car Dealers.....	6,980	6,808	12,981	14,177	13,474	703	193,790
Access., Tire, Battery Dealers.....	18,525	14,424	57,601	70,665	69,126	1,539	523,685
Filling Stations.....	241,858	231,475	235,527	198,934	185,658	13,276	2,822,495
Total Retail Trade—Automotive.....	300,972	281,776	622,811	704,364	684,191	20,173	8,347,563
Total Retail Trade—All Business.....	1,770,355	1,613,673	4,600,817	4,529,499	4,210,768	318,731	42,039,138
Automotive—Percent of Total.....	17.0%	17.5%	13.5%	15.6%	16.2%	6.3%	19.9%
Service Establishments							
Auto. Rep. and Serv's							
Auto. Brake Shops...	487	500	896	1,162	1,125	37	4,876
Auto. Laundries.....	960	987	1,490	889	683	196	2,941
Auto. Paint Shops.....	1,300	1,466	1,705	1,731	1,480	251	6,220
Auto. Rad. Shops.....	1,089	1,133	895	982	922	60	4,631
Auto. Rental Service.....	648	380	3,919	5,393	4,909	484	20,251
Auto. Repair (gen.)...	51,827	55,389	42,919	43,461	40,470	2,991	228,214
Auto. Storage Gar....	4,821	3,844	15,990	18,193	17,541	652	70,315
Auto. Top and Body Repair.....	6,232	7,067	11,905	13,683	12,693	990	44,678
Batt. and Ign. Rep. Shops.....	2,073	2,201	1,643	1,597	1,502	95	10,228
Parking Lots.....	6,274	4,282	8,637	6,961	6,375	586	31,755
Tire Repair Shops.....	2,215	2,363	1,178	1,064	974	90	8,222
Wheel, Axle, and Spring Repair....	413	424	1,092	1,572	1,523	49	5,040
Other Auto. Repairs.....	542	548	723	826	787	39	3,521
Custom Industries.....							
Tire Retread'g Shops.....	863	860	1,957	2,142	2,073	69	11,621
Total Service Estab.—Automotive.....	79,744	81,444	94,949	99,656	93,067	6,589	452,513
Total Service Estab.—All Business.....	645,966	652,449	1,098,582	1,064,187	955,818	108,369	3,410,202
Auto.—Percent of Total.....	12.3%	12.5%	8.6%	9.4%	9.7%	6.1%	13.3%
Total Wholesale, Retail, and Service—Auto.....	390,648	369,066	819,361	980,358	951,907	28,451	②
Total Wholesale, Retail and Service—Auto., inc. Pet. Bulk Sta'tns and Terminals.....	421,473	392,127	918,597	1,136,724	1,104,306	32,418	③
Total Wholesale, Retail, and Service—All Bus.	2,616,894	2,399,820	7,261,520	8,218,889	7,730,738	488,151	④
Auto.—Percent of Total							
Excl. Petroleum Bulk Sta'tns and Term's.....	14.9%	15.4%	11.3%	11.9%	12.3%	5.8%	.....
Incl. Petroleum Bulk Sta'tns and Term's.....	16.1%	16.3%	12.7%	13.8%	14.3%	6.6%	.....

①—Employees and payrolls include paid executives of corporations but not the number and compensation of proprietors of unincorporated businesses.

②—Totals not shown because of duplication in wholesale and retail sales.

EMPLOYMENT

Weekly Hours and Earnings Per Employee



(Data for the Year 1940 from U. S. Bureau of Labor Statistics)

Employment, Earnings and Hours of All Wage Earners in Automobile, Body and Parts Factories

ALL FACTORY WAGE EARNERS

INDIVIDUAL WORKER AVERAGES

Year	Average Employment ^①	Total Payrolls ^①	Weekly Earnings ^②	Cost of Living ^③	Weekly Purchasing Power ^④	Hours per Week ^⑤
1899...	2,000	\$1,321,000	\$12.50	.....	.....	..
1904...	12,000	7,159,000	11.50	.....	.....	..
1909...	76,000	48,694,000	12.30	.....	.....	..
1914...	127,000	101,927,000	15.40	.....	.....	..
1919...	343,000	491,121,000	27.50	126.7	75.5	..
1921...	213,000	318,753,000	28.80	131.2	76.4	..
1923...	405,000	660,088,000	31.30	125.1	87.0	..
1924...	377,000	594,464,000	30.30	125.3	84.1	..
1925...	426,000	713,856,000	32.20	127.8	87.6	45
1926...	422,000	687,648,000	31.30	128.6	84.7	..
1927...	370,000	612,196,000	31.80	125.6	88.1	..
1928...	435,000	747,344,000	33.00	123.7	92.8	44
1929...	448,000	732,264,000	31.40	123.9	88.2	..
1930...	323,000	431,080,000	25.70	119.9	74.6	35
1931...	286,000	350,376,000	23.60	107.0	76.7	..
1932...	244,000	254,592,000	20.10	93.9	74.5	30
1933...	244,000	251,316,000	19.80	88.7	77.6	33
1934...	381,000	447,460,000	22.60	92.7	84.8	32
1935...	445,000	587,236,000	25.40	96.3	91.7	34
1936...	459,000	674,492,000	28.30	98.6	99.8	37
1937...	517,000	814,268,000	30.30	103.7	101.6	34
1938...	305,000	454,064,000	28.60	101.8	97.7	31
1939...	394,000	639,756,000	31.20	99.5	109.1	34
1940...	447,000	795,912,000	34.20	100.3	118.6	36

①—1899-21 from U. S. Census of Manufactures, 1923 on from U. S. Bureau of Labor Statistics: Indexes times base figures from BLS Bulletin No. 610.

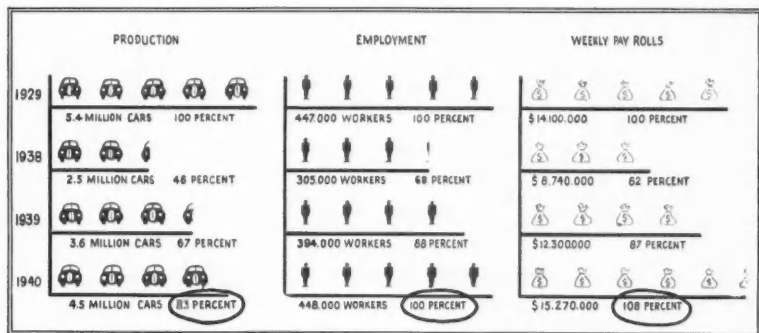
②—Payrolls divided by 52 times average employment.

③—Special index prepared by U. S. Bureau of Labor Statistics for automotive cities, 1935-39=100.

④—Weekly Earnings divided by Cost of Living, 1935-39=100.

⑤—Weekly Earnings divided by Hourly Rates reported by U. S. Bureau of Labor Statistics.

Employment and Pay Outstrip Production



Truck Transport Employs 4,172,000

(Approximately 1 out of every 11 Workers)

	Employment
Motor Trucks, Parts and Supplies, Production.....	88,500
Petroleum Production and Refining.....	22,000
Sales and Servicing.....	258,000
Miscellaneous, including raw materials, etc.....	65,000
Truck Drivers.....	3,739,200
Total.....	4,172,700

Publications of General Interest Issued by Automobile Manufacturers Association

A Factual Survey of Automobile Usage

A 36-page booklet summarizing results of recent surveys of passenger car use.

What It Takes to Make an Automobile

A 32-page booklet which describes the planning and specialization required in motor car manufacture.

Men, Methods and Machines

A 24-page booklet dealing with the social and economic effects of technological changes in the automobile industry.

Singing Wheels

A 23-minute sound motion picture, dramatizing the service of motor trucks in the nation's commerce, business and national defense.

Motor Truck Facts

A statistical reference book on motor truck production and use. Forty-eight pages.

Automobile Facts

An eight page monthly publication, September through June, containing facts of general interest relating to the motor vehicle industry.

EMPLOYMENT

Motor Plants Compared with All Industry

Average Annual Earnings—1939

MOTOR VEHICLES AND PARTS

\$1,282

ALL MANUFACTURING

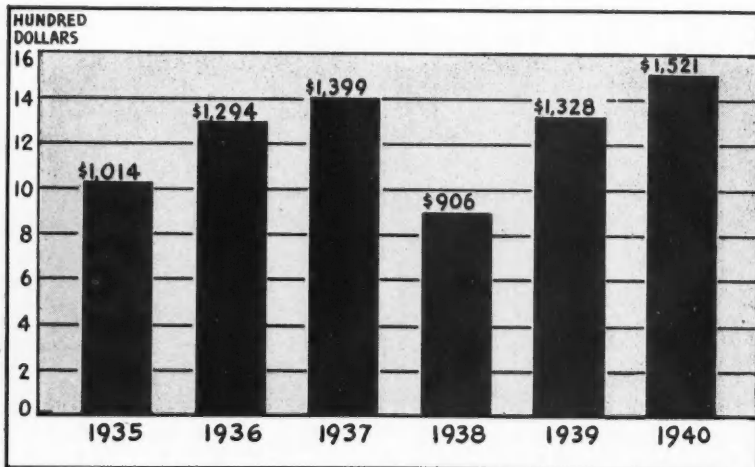
\$ 975

These averages are based on data from the records of the Bureau of Old-Age and Survivors Insurance of the Social Security Board. For 1939 employees are classified by preference according to their industry status during the third quarter of the year. If they did not work in the third quarter, another quarter is substituted. The averages are based on all employees covered for the 1939 tabulations. The averages are inexact measures of individual annual earnings, for they exclude earnings from non-covered employment and earnings over \$3,000 per year in the service of one employer. Unlike the 1938 data, however, they include the earnings of persons of age 65 and over, and exclude all wages earned during the preceding year. The inclusion of the earnings of workers of age 65 and over was due to a change in the law.

The comparison of motor vehicle and parts with all manufacturing is generally accurate. It is biased, if at all, against the motor vehicle industry, because of the rapid expansion in motor vehicle factory employment.

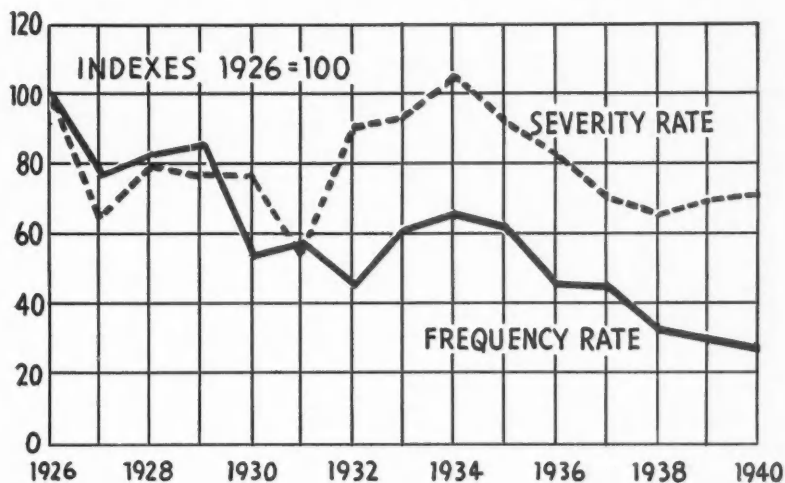
These averages are compiled on a basis not strictly comparable with those shown for 1937 and 1938 in the 22nd edition of "Automobile Facts and Figures".

Average Annual Individual Earnings (Automobile Factory Workers)

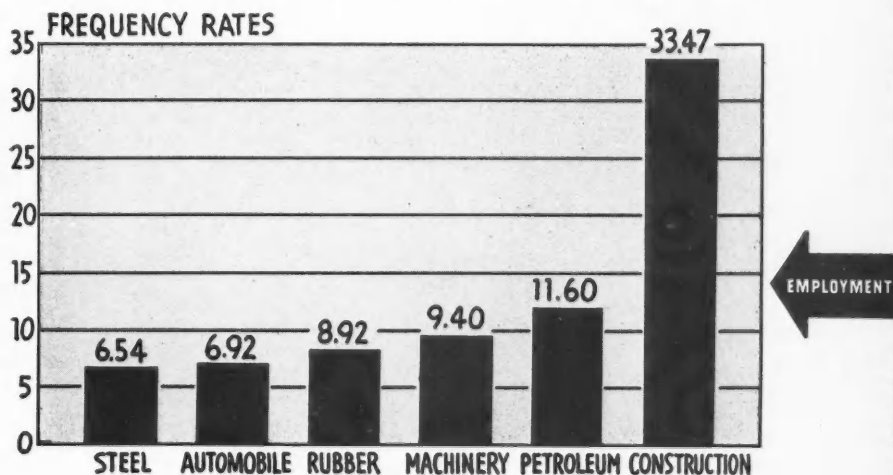


The above averages are from surveys by the Automobile Manufacturers Association, and are for model year periods. They represent the actual wage records of all individual hourly paid male factory workers, including those working only a short time during the model year due to expansion and contraction of operations, and also those who lost time due to personal disability or who quit or were discharged. Earnings of employees who changed employers during a model year are recorded as earnings of two or more individuals, thus reducing the over-all average.

Trend of Accidents in Automobile Plants



1940 Accident Rate in Selected Industries



(SOURCE: National Safety Council frequency rate is the number of disabling injuries per million man-hours of exposure. Severity rate is the number of days lost as result of disabling injuries per 1,000 man-hours of exposure, including charges for permanent disabilities and deaths.)

3,908,321 Carloads Automotive Freight Pa

Automotive Freight 3,908,321 Carloads

	Carloads*		Carloads*
Motor Vehicles, Parts, Tires	699,321	Road and Fuel Oil	50,300
Gasoline	1,101,000	Crude Rubber	14,200
Iron and Steel	223,000	Cement for Roads, Bridges	368,000
Iron Ore	204,000	Asphalt for Roads	102,000
Coal and Coke	83,500	Gravel, Sand, Stone, Brick	709,000
Crude Petroleum	69,700	Miscellaneous, such as non-	
Lubricating Oil	74,300	ferrous metals, paints,	
Lumber	13,000	upholstery materials	197,000
Total Automotive Freight Carloads		3,908,321	
Rail Revenues from Automotive Freight		\$453,419,194	

*Partly estimated by Automobile Manufacturers Association

Rail Carloads of Automobiles, Trucks, Parts and Tires, 1940

(From Freight Commodity Statistics of the Interstate Commerce Commission)

Eastern Lines	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
N. Y. C. Lines	191,533	58,374	249,907	\$17,447,194
G. T. W. R.R.	82,751	15,548	98,299	4,707,112
P. M. Ry.	59,575	10,872	70,447	4,063,081
Penn. System	57,760	39,029	96,789	7,101,902
D. T. & I. R.R.	50,100	3,697	53,797	2,147,216
Erie R.R.	18,635	21,367	40,002	2,422,031
B. & O. System	12,775	29,693	42,468	2,814,107
Reading System	8,621	21,698	30,319	1,001,220
Wabash System	7,772	41,810	49,582	3,526,947
A. C. & Y. Ry.	5,516	377	5,893	226,123
D. & T. S. L. R.R.	5,026	13,867	18,893	343,179
C. & E. I. Ry.	3,801	9,371	13,172	718,431
N. Y. C. & St. L. R.R.	2,913	14,968	17,881	1,191,488
D. L. & W. R.R.	2,317	18,664	20,981	1,360,399
B. & M. R.R.	1,702	21,385	23,087	1,170,373
N. Y. S. & W. R.R.	925	5,186	6,111	225,184
L. V. R.R.	844	19,570	20,414	1,339,489
C. I. & L. R.R.	805	2,480	3,285	167,696
C. & O. Ry.	761	10,912	11,673	855,279
N. & W. Ry.	610	8,245	8,855	832,643
New Haven System	526	27,885	28,411	1,226,694
W. Md. Ry.	379	5,540	5,919	229,965
D. & H. R.R.	329	10,437	10,766	268,397
W. & L. E. R.R.	226	7,592	7,818	230,909
C. Vt. Ry.	33	5,790	5,823	295,301
Virginian Ry.	21	3,212	3,233	195,053
Me. Cent. R.R.	7	2,986	2,993	139,426
C. P. Lines in Me. & Vt.	3	5,390	5,393	114,019

EMPLOYMENT

ht Pay Railroads \$453,419,000 in 1940

Eastern Lines—continued	Carloads Originated	Carloads Received from Connections	Total Carloads Carried	Revenue
Rutland R.R.....	1	2,514	2,515	115,375
Miscellaneous.....	93	19,489	19,582	323,619
Total Eastern Lines.....	516,360	457,948	974,308	\$56,799,852
Southern Lines				
Southern Ry. System.....	19,624	36,967	56,591	\$3,758,976
Ill. Cent. System.....	9,258	28,862	38,120	3,173,833
L. & N. R.R.....	4,766	8,529	13,295	1,257,682
G. M. & O. R.R.....	477	4,411	4,888	431,819
A. C. L. System.....	237	15,615	15,852	860,440
S. A. L. Ry.....	94	7,746	7,840	531,083
Miss. Cent. R.R.....	90	424	514	16,712
Norfolk Southern R.R.....	31	1,333	1,364	69,614
F. E. C. Ry.....	2	1,828	1,830	194,711
Clinchfield R.R.....	.....	4,234	4,234	218,889
Miscellaneous.....	.....	1,810	1,810	52,947
Total Southern Lines.....	34,579	111,759	146,338	\$10,566,706
Western Lines				
Southern Pac. System.....	33,717	37,953	71,670	\$9,604,085
Mo. Pac. System.....	30,673	28,263	58,936	4,629,253
C. M. St. P. & P. R.R.....	25,162	16,474	41,636	3,019,688
C. & N. W. System.....	18,295	29,138	47,433	2,634,380
A. T. & S. Fe. Ry. System.....	9,082	26,848	35,930	8,006,631
Frisco Lines.....	5,439	10,529	15,968	1,276,624
Burlington Route.....	4,007	18,333	22,340	2,161,485
Rock Island System.....	3,499	19,326	22,825	2,534,513
St. L. S. W. Lines.....	3,270	9,261	12,531	1,667,233
Union Pacific R.R.....	3,252	34,349	37,601	8,297,491
T. & P. Ry.....	3,045	14,584	17,629	1,237,014
K. C. S. Ry.....	2,445	7,215	9,660	733,924
M. K. T. Lines.....	2,355	8,821	11,176	1,415,357
Gt. Nor. Ry.....	1,494	10,353	11,847	1,693,004
M. St. P. & S. S. M. Ry.....	788	2,570	3,358	331,064
No. Pac. Ry.....	666	9,823	10,489	1,635,522
C. G. W. R.R.....	525	7,047	7,572	552,372
West. Pac. R.R.....	298	5,974	6,272	693,360
Alton R.R.....	156	1,732	1,888	119,706
M. & St. L. R.R.....	70	3,752	3,822	169,296
La. & Ark. Ry.....	64	3,402	3,466	181,027
D. & R. G. W. R.R.....	39	8,438	8,477	825,474
G. B. & W. R.R.....	2	2,768	2,770	148,843
S. P. & S. Ry.....	1	5,131	5,132	226,388
K. O. & G. Ry.....	.....	5,247	5,247	262,050
Miscellaneous.....	38	5,339	5,377	209,196
Total Western Lines.....	148,382	332,670	481,052	\$54,264,980
Total U. S. Automobiles, Trucks and Parts, including Tires.....	699,321	902,377	1,601,698	\$121,631,538

EMPLOYMENT

Carloads and Revenue of Automotive Freight

Year	All Traffic, Carloads (I.C.C. Statistics)	Automotive Freight Carloads*	Automotive Freight Per Cent of Total Carloads	Revenue from Automotive Freight
1929.....	36,821,868	3,667,792	10.0%	\$563,411,000
1930.....	31,479,071	3,330,583	10.6%	478,466,000
1931.....	24,631,961	3,106,645	12.6%	396,738,000
1932.....	18,067,496	2,543,833	14.1%	325,000,000
1933.....	19,278,087	2,640,910	13.7%	324,320,000
1934.....	21,223,443	3,064,805	14.4%	365,021,000
1935.....	21,779,757	3,361,601	15.5%	416,234,000
1936.....	25,950,943	3,791,247	14.6%	494,562,000
1937.....	27,175,680	4,155,749	15.3%	473,431,000
1938.....	21,167,420	3,096,108	14.6%	359,069,000
1939.....	24,119,098	3,616,917	15.0%	425,556,487
1940.....	26,410,754	3,908,321	14.8%	463,419,194

*Includes freight produced by motor vehicle manufacture and use, and highway construction.

Shipments of Assembled Cars and Trucks

From Factories and Assembling Plants in United States, including Exports

Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat	Year	Railroad Carloads of Machines	Machines Delivered Overland	Machines Shipped by Boat
1929.....	733,631	1,958,738	199,576	1938.....	448,685	2,237,432	311,436
1930.....	130,820	706,977	51,103	1937.....	476,221	2,452,300	340,773
1933.....	198,627	930,303	126,258	1938.....	224,955	1,330,334	151,632
1934.....	318,294	1,209,291	154,540	1939.....	313,204	1,996,629	208,549
1935.....	401,547	1,599,974	272,458	1940.....	402,619	2,619,484	274,431

Automotive Share of Industrial Rail Freight

PERCENTAGE AUTOMOTIVE				PERCENTAGE AUTOMOTIVE			
Year	Manufactures and Miscellaneous	Forests and Mines	Total Carload Traffic	Year	Manufactures and Miscellaneous	Forests and Mines	Total Carload Traffic
1929.....	23.0%	4.5%	10.0%	1935.....	32.9%	8.6%	15.5%
1930.....	24.0%	5.8%	10.6%	1936.....	30.3%	8.3%	14.6%
1931.....	28.8%	7.6%	12.6%	1937.....	29.0%	10.2%	15.3%
1932.....	34.4%	8.4%	14.1%	1938.....	29.4%	10.0%	14.6%
1933.....	32.7%	8.0%	13.7%	1939.....	28.4%	10.6%	15.0%
1934.....	33.0%	8.4%	14.4%	1940.....	28.4%	9.6%	14.8%

EMPLOYMENT

Age Distribution of Licensed Drivers

(SOURCE: American Automobile Association)

Age Group	Percent of All Drivers	Age Group	Percent of All Drivers
19 and Under.....	10.3	50-54.....	6.2
20-24.....	15.0	55-59.....	4.3
25-29.....	15.0	60-64.....	2.9
30-34.....	13.6	65-69.....	1.7
35-39.....	11.6	70-74.....	0.8
40-44.....	10.0	75 and Over.....	0.5
45-49.....	8.1	Total.....	100.0

Members of Automobile Manufacturers Association

Passenger Car Manufacturers

Trade Name	Member or Manufacturer	Address
Buick.....	Buick Motor Division*	Flint, Mich.
Cadillac.....	Cadillac Motor Car Division*	Detroit, Mich.
Chevrolet.....	Chevrolet Motor Division*	Detroit, Mich.
Chrysler.....	Chrysler Sales Division†	Detroit, Mich.
Crosley.....	The Crosley Corporation	Cincinnati, Ohio
De Soto.....	De Soto Division†	Detroit, Mich.
Dodge.....	Dodge Division†	Detroit, Mich.
Graham.....	Graham-Paige Motors Corporation	Detroit, Mich.
Hudson.....	Hudson Motor Car Company	Detroit, Mich.
Hupmobile.....	Hupp Motor Car Corporation	Detroit, Mich.
Nash.....	Nash-Kelvinator Corporation	Detroit, Mich.
Oldsmobile.....	Olds Motor Works Division*	Lansing, Mich.
Packard.....	Packard Motor Car Company	Detroit, Mich.
Plymouth.....	Plymouth Division†	Detroit, Mich.
Pontiac.....	Pontiac Motor Division*	Pontiac, Mich.
Studebaker.....	The Studebaker Corporation	South Bend, Ind.
Willys.....	Willys-Overland Motors, Inc.	Toledo, Ohio

†Chrysler Corporation.

*General Motors Corporation.

Taxicab Manufacturers

Checker.....	Checker Cab Mfg. Corporation	Kalamazoo, Mich.
G. M. C.....	Yellow Truck and Coach Mfg. Co.	Pontiac, Mich.

Ambulance and Funeral Vehicle Manufacturers

Cadillac.....	Cadillac Motor Car Division*	Detroit, Mich.
Packard.....	Packard Motor Car Company	Detroit, Mich.
Studebaker.....	The Studebaker Corporation	South Bend, Ind.

*General Motors Corporation.

Motor Fire Apparatus Manufacturers

Mack.....	Mack Manufacturing Corporation	Long Island City, N. Y.
Walter.....	Walter Motor Truck Company	Ridgewood, N. Y.
White.....	The White Motor Company	Cleveland, Ohio

Members of Automobile Manufacturers Association

Motor Truck Manufacturers

Including Light Commercial Vehicle and Station-Wagon Manufacturers

Trade Name	Member or Manufacturer	Address
Autocar.....	The Autocar Company.....	Ardmore, Pa.
Chevrolet.....	Chevrolet Motor Division*.....	Detroit, Mich.
Corbitt.....	The Corbitt Company.....	Henderson, N. C.
Crosley.....	The Crosley Corporation.....	Cincinnati, Ohio
Diamond T.....	Diamond T. Motor Car Company.....	Chicago, Ill.
Dodge.....	Dodge Division†.....	Detroit, Mich.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
G. M. C.....	Yellow Truck and Coach Mfg. Co.....	Pontiac, Mich.
Hudson.....	Hudson Motor Car Company.....	Detroit, Mich.
International.....	International Harvester Company.....	Chicago, Ill.
LaFrance-Republic.....	Sterling Motor Truck Company.....	Milwaukee, Wis.
Mack.....	Mack Manufacturing Corporation.....	Long Island City, N. Y.
Plymouth.....	Plymouth Division†.....	Detroit, Mich.
Reo.....	Reo Motors, Inc.....	Lansing, Mich.
Sterling.....	Sterling Motor Truck Company.....	Milwaukee, Wis.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
Walter.....	Walter Motor Truck Company.....	Ridgewood, N. Y.
White.....	The White Motor Company.....	Cleveland, Ohio
Willys.....	Willys-Overland Motors, Inc.....	Toledo, Ohio

†Chrysler Corporation

*General Motors Corporation.

Motor Bus Manufacturers

Diamond T.....	Diamond T Motor Car Company.....	Chicago, Ill.
Federal.....	Federal Motor Truck Company.....	Detroit, Mich.
G. M. C.....	Yellow Truck and Coach Mfg. Co.....	Pontiac, Mich.
I. H. C.....	International Harvester Company.....	Chicago, Ill.
Mack.....	Mack Manufacturing Corporation.....	Long Island City, N. Y.
Reo.....	Reo Motors, Inc.....	Lansing, Mich.
Studebaker.....	The Studebaker Corporation.....	South Bend, Ind.
White.....	The White Motor Company.....	Cleveland, Ohio

DIRECTORY

Truck Trailer Manufacturers

Corbitt.....	The Corbitt Company.....	Henderson, N. C.
G. M. C.....	Yellow Truck and Coach Mfg. Co.....	Pontiac, Mich.
Mack.....	Mack Manufacturing Corporation.....	Long Island City, N. Y.
White.....	The White Motor Company.....	Cleveland, Ohio

Organization of Automobile Manufacturers Association

A list of Directors and Officers is given on page two

Engineering Loading Committee

E. A. Weiss, Chairman.....	Packard Motor Car Company
F. W. Hertrich.....	Buick Motor Division, General Motors Corporation
A. H. Stahlhuth.....	Cadillac Motor Division, General Motors Corporation
R. R. Brown.....	Chevrolet Motor Division, General Motors Corporation
H. S. Wells.....	Chrysler Corporation
W. L. Norris.....	Hudson Motor Car Company
R. F. Weber.....	International Harvester Company
Edmund Fuhry.....	Oldsmobile Motor Division, General Motors Corporation
J. W. Leggat.....	Pontiac Motor Division, General Motors Corporation
K. A. Moore, Secretary	

Export Committee

R. A. Hutchinson, Chairman.....	Studebaker Export Corporation
Allen C. Germann, Vice-Chairman.....	Hudson Motor Car Company
R. J. Archer.....	Willys Export Corporation
G. R. Ford.....	Packard Motors Export Corporation
G. C. Hoyt.....	International Harvester Export Company
Ledyard Mitchell.....	Chrysler Corporation
Edward C. Riley.....	General Motors Overseas Operations
George D. Riedel.....	General Motors Overseas Operations
H. M. Salisbury.....	Nash-Kelvinator Corporation
C. B. Thomas.....	Chrysler Corporation
C. M. Wynne.....	Diamond T Motor Car Company
Charles R. Weaver, Secretary	

Ocean Rate Committee

David J. Elmore, Chairman.....	The Studebaker Corporation
Ferry A. Allen.....	Hudson Motor Car Company
T. J. Gilsenan.....	General Motors Corporation
Leo W. Krass.....	Chrysler Corporation
William J. Reagan.....	Nash-Kelvinator Corporation
Gilbert D. Smith.....	International Harvester Company
James S. Marvin, Secretary	

Field Relations Committee

Carlos J. Jolly, Chairman.....	General Motors Corporation
W. H. Brearley.....	The Autocar Company
David C. Fenner.....	Mack Manufacturing Corporation
R. P. Fohey.....	Chrysler Corporation
Milton Tibbetts.....	Packard Motor Car Company
Horace J. Mellum.....	Nash-Kelvinator Corporation
Forest D. Siefkin.....	International Harvester Company
Louis R. Morony, Secretary	

Highway Committee

Paul G. Hoffman, Chairman.....	The Studebaker Corporation
A. Edward Barit.....	Hudson Motor Car Company
Robert F. Black.....	The White Motor Company
Joseph E. Fields.....	Chrysler Corporation
John W. Gibbons, Secretary	

DIRECTORY

Organization of Automobile Manufacturers Association

Insurance Committee

Milton Tibbetts, Chairman.....	Packard Motor Car Company
A. C. Anderson.....	General Motors Corporation
R. P. Fohey.....	Chrysler Corporation
Andrew Hood.....	Hudson Motor Car Company
A. G. Rumpf.....	The Studebaker Corporation
George C. Arvedson, Secretary	

Manufacturers Committee

C. E. Wilson, Chairman.....	General Motors Corporation
W. F. Armstrong.....	Nash-Kelvinator Corporation
G. T. Christopher.....	Packard Motor Car Company
E. F. Fisher.....	Fisher Body Division, General Motors Corporation
F. T. MacRae, Jr.....	The White Motor Company
M. J. LaCroix.....	International Harvester Company
R. E. Stone.....	Graham-Paige Motors Corporation
I. B. Swegles.....	Hudson Motor Car Company
H. L. Weckler.....	Chrysler Corporation
William J. Cronin, Secretary	

Motor Truck Committee

R. F. Black, Chairman.....	The White Motor Company
I. B. Babcock.....	Yellow Truck & Coach Manufacturing Company
E. J. Bush.....	Diamond T Motor Car Company
L. D. Cosart.....	Dodge Brothers Corporation*
D. C. Fenner.....	Mack Manufacturing Corporation
W. E. Fish.....	Chevrolet Motor Division, General Motors Corporation
T. R. Lippard.....	Federal Motor Truck Company
P. V. Moulder.....	International Harvester Company
R. P. Page, Jr.....	The Autocar Company
Arthur C. Butler, Secretary	

Patents Committee

H. S. Vance, Chairman.....	The Studebaker Corporation
J. King Harness.....	Chrysler Corporation
L. M. Spencer.....	General Motors Corporation
Paul Pippel.....	International Harvester Company
Milton Tibbetts.....	Packard Motor Car Company
George C. Arvedson, Secretary	

Public Relations Committee

Paul W. Garrett, Chairman.....	General Motors Corporation
Dale Cox.....	International Harvester Company
Paul G. Hoffman.....	The Studebaker Corporation
Thomas J. Ross.....	Representing Chrysler Corporation
Clyde M. Vandeburg.....	Packard Motor Car Company
James Cope, Secretary	

Sales Managers Committee

R. H. Grant, Chairman.....	General Motors Corporation
William A. Blees.....	Nash-Kelvinator Corporation
A. van Der Zee.....	Chrysler Corporation
K. B. Elliott.....	The Studebaker Corporation
W. M. Packer.....	Packard Motor Car Company
George H. Pratt.....	Hudson Motor Car Company
J. W. Dineen, Secretary	

*Chrysler Corporation.

Organization of Automobile Manufacturers Association

Show Committee

Byron C. Foy, Chairman.....	DeSoto Motor Corporation*
R. H. Grant.....	General Motors Corporation
Paul G. Hoffman.....	The Studebaker Corporation
Alfred Reeves, Show Manager.....	

Taxation Committee

A. E. Barit, Chairman.....	Hudson Motor Car Company
Alvan Macauley.....	Packard Motor Car Company
Charles W. Nash.....	Nash-Kelvinator Corporation
Robert P. Page, Jr.....	The Autocar Company
Alfred P. Sloan, Jr.....	General Motors Corporation

Traffic Committee

F. A. Allen, Chairman.....	Hudson Motor Car Company
N. J. Brennan.....	Plymouth Motor Corporation*
H. J. Connelly.....	DeSoto Motor Corporation*
H. E. Boyer.....	The White Motor Company
S. L. Harter.....	Mack Manufacturing Corporation
N. D. Hoke.....	Chrysler Corporation
E. R. Isbell.....	Packard Motor Car Company
J. Earl Lind.....	Yellow Truck & Coach Manufacturing Company
T. J. Maloney.....	International Harvester Company
E. B. Rogers.....	Pontiac Motor Division, General Motors Corporation
C. R. Scharff.....	Chevrolet Motor Division, General Motors Corporation
C. Clark Smith.....	Buick Motor Division, General Motors Corporation
E. E. Swartz.....	Nash-Kelvinator Corporation
E. J. Tiedeman.....	Cadillac Motor Division, General Motors Corporation
G. E. Welch.....	The Studebaker Corporation
D. C. Whitmore.....	Oldsmobile Motor Division, General Motors Corporation
H. D. Wright.....	Dodge Brothers Corporation*
Kenneth A. Moore, Department Manager.....	

Representative on National Industrial Conference Board

James D. Mooney.....	General Motors Corporation
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Representatives in American Standards Association

Carl Breer.....	Chrysler Corporation
David C. Fenner.....	Mack Manufacturing Corporation
Robert P. Page, Jr.....	The Autocar Company

Representatives on National Highway Users Conference

Alfred P. Sloan, Jr.....	General Motors Corporation
R. F. Black.....	The White Motor Company
Pyke Johnson.....	Executive Vice-Pres. A. M. A.

Representative on International Chamber of Commerce

James D. Mooney.....	General Motors Corporation
*Chrysler Corporation.....	

DIRECTORY

Associations of the Automobile Industry

Automobile Manufacturers Association, Inc.

OFFICES: New Center Building, Detroit, Mich.; 366 Madison Avenue, New York, N. Y., and Transportation Building, Washington, D. C.

PRESIDENT: Alvan Macauley, Chairman, Packard Motor Car Company.

EXECUTIVE VICE-PRES.: Pyke Johnson.

ADVISORY VICE-PRES.: Alfred Reeves.

The Automobile Manufacturers Association is the organization through which the motor vehicle manufacturers of the United States cooperate on matters of common interest. It was organized in 1913 under the name of the National Automobile Chamber of Commerce (name changed to present one in 1934). The Association is the successor of the National Association of Automobile Manufacturers, the Automobile Board of Trade and the Association of Licensed Automobile Manufacturers.

OBJECT: To represent the manufacturers of motor vehicles in all matters where cooperative activity is appropriate, efficient and economical and to serve as the clearing house for research and information on all subjects relating to highway transportation, as well as on the industry's defense production, which is now its prime concern.

The scope of the Association's work is indicated by the following list of some of its current activities.

ACTIVITIES:

Conducts researches as needed by the industry and public agencies on subjects relating to the manufacture, sale and operation of motor vehicles including: markets; factory employment; legislation; safety; highway construction and finance; foreign trade; commercial highway transportation; taxation, rail, highway and ocean freight traffic; and patents.

Issues publications dealing with all phases of the industry activities which are of public interest. These include "Automobile Facts and Figures," "Motor Truck Facts," "Automobile Facts" (monthly publication), and other special literature.

Manages the National Automobile Show in New York. (Cancelled for 1941 due to the national emergency.)

Maintains the most complete automotive library in existence for use of members.

Administers the Cross-Licensing Agreements program under which members have pooled 1000 patents for use by other members without payment of royalty. This activity was designated in the 1930 American Trade Association Executives award competition as the most outstanding service performed by any trade association.

Studies rail and steamship transportation rates and service and seeks to develop maximum efficiency and economy in the movement of automotive freight.

Aids in promoting sound and equitable legislative principles relating to highway transportation.

Encourages the development of highway facilities on a sound economic basis.

Maintains regional information offices in New York City and Washington, D. C.

Members of the Association classified according to numbers of makes of vehicles produced are grouped as follows: passenger cars, 17; motor trucks and truck trailers, 19; taxicabs, 2; buses, 8; special vehicles such as fire apparatus, ambulances and funeral cars, 6.

Associations of the Automobile Industry

American Automobile Association

National Headquarters: Pennsylvania Avenue at 17th Street, N. W., Washington, D. C.

President: Thos. P. Henry, 41 Burroughs Avenue, Detroit, Mich.

General Manager: Russell E. Singer.

The world's largest motor federation—composed of 728 motor clubs and branches and over 1,100,000 members. It is a national civic body, operating without personal profit and officered by responsible business and professional men.

Objects: Its objects, briefly stated, are:

To unite in one body all the automobile clubs and individual motorists in the country.

To secure reasonable and just legislation and to aid in proper enforcement of automobile laws and ordinances.

To secure the construction and maintenance of a system of highways adequate to the needs of motor transport.

To encourage travel by automobile, bus, steamship, rail and air, and to secure, prepare, and disseminate information relative thereto.

To support sportsmanlike contests and other movements that will advance motoring interests.

To develop service to motorists through clubs.

To promote highway safety by motorists and pedestrians, and to develop it among children through safety lessons, school boy patrols, and driver training.

To facilitate touring by Americans in foreign countries, furnish customs papers, driving licenses and necessary documents.

American Automobile Touring Alliance

Administrative Offices: 261 N. Broad Street, Philadelphia, Pa.

President: Standish L. Mitchell, Automobile Club of Southern California, Adams at Figueroa Streets, Los Angeles, California.

Secretary: J. Maxwell Smith, 261 North Broad Street, Philadelphia, Pa.

A non-profit corporation with membership over 300,000.

Objects: To aid in the organization and maintenance of automobile associations and clubs to promote the welfare of motorists, to provide and distribute international touring literature; to promote touring, good roads and safety on the highway.

American Finance Conference

Offices: 1730-34 Burnham Bldg., 160 North LaSalle St., Chicago, Ill.

President: Herman A. Moore, Auto Finance Co., Charlotte, N. C.

Chairman, Executive Committee: Harry L. Solomon, Colonial Finance Co., Lima, Ohio.

Executive Vice-President: Fred V. Chew, 160 North LaSalle St., Chicago, Ill.

General Manager: Thomas W. Rogers, 160 N. LaSalle St., Chicago, Ill.

A national trade association representing 380 automobile finance companies operating nearly 1000 offices in 46 states. Purpose is to promote the betterment of the business of its members by coordinating its forces for educational, legislative, defensive or other purposes, by aiding and co-operating with any movement beneficial to the automobile financing business.

American Trucking Associations, Inc.

General Offices: 1424 16th St., N. W., Washington, D. C.

President: Ted V. Rogers.

Manager: John V. Lawrence.

The American Trucking Associations, Inc., organized in Washington October 1, 1933, is composed of 50 regional, state and local motor truck associations, representing throughout the country, ownership, by all types of operators, in excess of 500,000 trucks. It is a federation of associations, operating without profit and officered by truck operators for the purpose of promoting the best interests of the Trucking Industry.

It is the recognized national spokesman for the Trucking Industry and contacts regularly all Federal departments in which arise matters pertaining to trucking and other forms of transportation.

The Association of American Battery Manufacturers, Inc.

Successor to National Battery Manufacturers Association.

Headquarters: 2706 First Central Tower, Akron, Ohio.

President: B. F. Morris, Thomas A. Edison, Inc., Kearney, N. J.

Commissioner: V. L. Smithers, 2706 First Central Tower, Akron, Ohio.

An Association of manufacturers of wet storage batteries in North and South America. Manufacturers of materials used in production of batteries, and manufacturers of equipment used for direct servicing of storage batteries are accepted as Associate Members.

Engage in promotion of activities of interest to the industry. Particularly active in standardization of batteries, battery testing, guarantee and adjustment policies, and educational programs which improve the care and servicing of batteries.

Automotive Electric Association

General Offices: 800 Michigan Theatre Building, Detroit, Mich.

President: F. E. Willis, Bendix Products Division, South Bend, Ind.

Executive Secretary: S. W. Potter, 800 Michigan Theatre Building, Detroit, Mich.

An international association of manufacturers, distributors and authorized service stations organized to safeguard and promote the welfare of specialized service in the automotive industry.

Automotive Parts and Equipment Manufacturers, Incorporated

General Offices: 800 Michigan Theatre Building, Detroit, Mich.

President: C. C. Carlton, Motor Wheel Corporation, Lansing, Mich.

General Manager: Frank Rising, 800 Michigan Theatre Building, Detroit, Mich.

A national association of manufacturers of automotive parts and equipment. Has seven divisions: Original Equipment, Replacement Parts, Accessories, Shop Equipment, Service Tools, Electrical Products and Aviation Parts and Equipment.

Maintains statistical and legal departments and engages in all activities for the promotion and protection of the best interests of industry, through cooperation among the members and otherwise.

DIRECTORY

Associations of the Automobile Industry—Continued

Automotive Safety Foundation, Inc.

Headquarters: Tower Building, Washington, D. C.

President: Paul G. Hoffman, President, The Studebaker Corporation.

Vice-Presidents: C. C. Carlton, President, Automotive Parts & Equipment Manufacturers; F. B. Davis, Jr., President, U. S. Rubber Co.; A. O. Dietz, President, Commercial Investment Trust.

Secretary-Treasurer: Byron C. Foy, President, De Soto Motor Corporation.

Assistant Treasurers: Pyke Johnson, Executive Vice-President, Automobile Manufacturers Association; Alfred Reeves, Advisory Vice-President, Automobile Manufacturers Association.

Director: Norman Damon.

Purpose: To encourage safe and efficient use of streets and highways; stimulate research into causes of highway accidents and disseminate information on safe use of motor vehicles, effective methods of preventing accidents, means of relieving congestion and facilitating traffic with safety.

Automotive Trade Association Managers

General Offices: 307 N. Michigan Ave., Chicago, Ill.

President: W. A. Williamson.

Vice-President: Tod Bates.

Secretary-Treasurer: Samuel E. Shapiro, 307 N. Michigan Ave., Chicago, Ill.

A National Association composed of managers of state and local automobile dealer associations.

Motor and Equipment Manufacturers Association

Executive Headquarters: Fisk Building, 250 West 57th St., New York.

President: H. R. Kerans, President, The K-D Lamp Co., Cincinnati, Ohio.

General Manager: Albert H. Eichholz, Fisk Building, New York, N. Y.

National organization, functioning since 1904 representing interests of manufacturers of original equipment, replacement parts, accessories, shop equipment, service tools, and chemicals for the automobile, automotive, aircraft and marine fields. Maintains credit, export, sales development, trade and national shows, legislation and group activities departments.

Motor and Equipment Wholesalers Association

Executive Headquarters: Jackson-Franklin Building, 309 W. Jackson Blvd., Chicago, Ill.

President: T. C. Tonkin, Casper Supply Co., Casper, Wyo.

General Manager: B. W. Ruark, 309 W. Jackson Blvd., Chicago, Ill.

National organization representing interests of automotive jobbers, distributing merchandise gen-

erally as follows: Parts, equipment, accessories, and supplies in the automotive, aircraft and marine line.

Maintains an information bureau for members and disseminates information pertinent to operations of the automotive jobbing industry.

Conducts Collection Service, Adjustment Bureau, Merchandise Exchange Department, and Interchange of Members' Experiences Department. Also conducts margin check and manual of simplified presentations' services.

National Association of Motor Bus Operators

President: A. M. Hill, President, Atlantic Greyhound Corp., 1100 Kanawha Valley Bldg., Charleston, W. Va.

Vice-President: E. W. Wakelee, President, Public Service Corp. of New Jersey, 80 Park Place, Newark, N. J.

Secretary-Manager: A. W. Koehler, 831 Tower Building, Washington, D. C.

All activities that promote the welfare and prosperity of motor bus operators and of the bus industry as a whole are within the scope of the Association's program. These include national, state and municipal legislation, important litigation, the collection and dissemination of bus operating cost and tax data, and the distribution to the public of facts on the economy and convenience of bus travel.

National Association of Taxicab Owners

Headquarters: 500 North Dearborn St., Chicago, Ill.

President: John P. Wagner, Milwaukee, Wis.

Secretary: J. G. Williams, Chicago, Ill.

Purposes: To afford our members a medium of cooperation.

To collect and disseminate information that promotes the economical conduct of the taxicab business.

National Automobile Dealers Association

General Offices: 154 Bagley Ave., Detroit, Mich.

President: L. Clare Cargile, Texarkana, Ark.

Manager: W. E. Blanchard, Detroit, Mich.

Treasurer: D. E. Castles, St. Louis, Mo.

Secretary: Arthur E. Center, Springfield, Mass.

General Counsel: Charles W. Bishop, Washington, D. C.

Object is promotion of automobile dealer business, constructive publicity on dealer aims, maintenance of high merchandising standards, research on selling opportunities of the business, study of markets and dissemination of facts concerning the same, opposition to harmful legislation, support of good legislation, promotion of good roads and furthering highway safety.

Associations of the Automobile Industry—Continued

National Council of Private Motor Truck Owners, Inc.

Headquarters: National Press Building, Washington, D. C.

President: Fred Brackman, The National Grange, Washington, D. C.

Vice-Presidents: T. L. Preble, Tide Water Associated Oil Co., New York, N. Y.; Wm. A. Quinlan, American Bakers Association, Chicago, Ill.; F. Arnold Anderson, Private Truck Owners Bureau of California, San Francisco, Calif.; E. M. Fetherston, Jr., David Pender Grocery Co., Norfolk, Va.

Treasurer: Robert C. Hibben, International Association of Ice Cream Manufacturers, Washington, D. C.

Managing Director: Leon F. Banigan, National Press Building, Washington, D. C.

A national organization incorporated as a non-profit association under the laws of the State of New York, devoted to the safe and economic use of the 3,600,000 motor trucks owned and operated by agriculture and industry. Its membership comprises firms owning one or more trucks, as well as national and state associations that represent them.

Objects: The objects of the Association are to promote an enlarged acquaintance and a more friendly intercourse among its members and in all reasonable, lawful and proper ways to promote the best interests of the automotive service parts trade.

National Wheel and Rim Association

16883 Wyoming Ave., Detroit, Mich.

President: H. M. Young, Borbein Young & Co., St. Louis, Mo.

Secretary and General Manager: E. S. Ingham, 16883 Wyoming Ave., Detroit, Mich.

Active membership consists of firms engaged in the wholesale distribution of wheels and allied products; associate membership, the manufacturers of wheels for original equipment who sell replacement materials through distributors.

Objects: To promote the general welfare of the industry; exchange information among members; publish catalogs and sales promotion material; and encourage close friendly relations among the members by means of meetings at regular intervals and bulletin service between meetings.

National Highway Users Conference

Headquarters: National Press Building, Washington, D. C.

Chairman: Alfred P. Sloan, Jr., Chairman of the Board, General Motors Corporation, New York, N. Y.

Vice-Chairman: Thomas P. Henry, President, American Automobile Association.

Secretary-Treasurer: L. J. Taber, Master, The National Grange.

Director: Chester H. Gray, National Press Building, Washington, D. C.

Encourages the development of equitable policies of taxation for the use of public highways and endeavors to prevent imposition of unjust burdens upon highway traffic.

Serves as a clearing house for information on proposed national, state and municipal legislation affecting motor vehicle taxation and regulation and highway construction.

The Rubber Manufacturers Association, Incorporated

General Offices: 444 Madison Ave., New York City.

President: A. L. Viles.

Secretary: R. H. Goebel.

A national trade organization embracing rubber manufacturers of the United States.

Its membership consists of 100 firms, and its object is to promote in all lawful ways the commercial interests of its members, and secure the advantages to be obtained through mutual co-operation, also to stimulate social intercourse among those connected with the rubber industry and commerce and in general for the promotion of the welfare of the rubber industry.

National Standard Parts Association

General Offices: 500 United Artists Bldg., Detroit, Mich.

President: Burke Patterson, Thompson Products, Inc., Cleveland, Ohio.

Executive Vice-President: C. D. McKim, 500 United Artists Building, Detroit, Mich.

Membership comprises corporations, firms or persons engaged in manufacturing and/or jobbing standard brands of automotive service parts, materials, shop tools and equipment.

Society of Automotive Engineers, Inc.

General Offices: 29 West 39th St., New York City.

President: A. T. Colwell, Cleveland, Ohio.

Secretary and General Manager: John A. C. Warner.

Object of the Society is to promote the arts, sciences, standards, and engineering practices connected with the design, construction and utilization of automotive apparatus, all forms of self-propelled or mechanically propelled mediums for the transportation of passengers or freight by land and air, and internal combustion prime-movers. Publications are: Transactions (annual), S. A. E. Membership Roster (annual); The S. A. E. Journal (monthly); and S. A. E. Handbook, Standards and Recommended Practices (published annually).

DIRECTORY

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